

Meeting Date: January 27, 2015

Agenda Item 9

REQUESTED COMMISSION ACTION:

Consent Ordinance Resolution Consideration Workshop

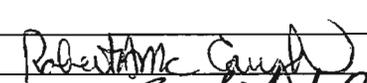
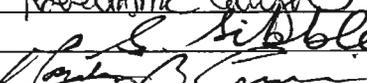
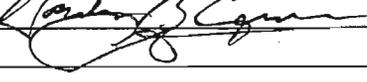
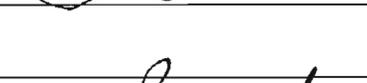
SHORT TITLE OR MOTION: A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF POMPANO BEACH, FLORIDA, APPROVING AND AUTHORIZING THE PROPER CITY OFFICIALS TO EXECUTE A DISTRICT FOUR (4) AMENDMENT NUMBER SEVEN (7) TO LANDSCAPE INCLUSIVE MAINTENANCE MEMORANDUM OF AGREEMENT BETWEEN THE CITY OF POMPANO BEACH AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FOR ADDITIONAL LANDSCAPE IMPROVEMENTS ON STATE ROAD 834 (SAMPLE ROAD) FROM STATE ROAD 91 (FLORIDA TURNPIKE) TO MILITARY TRAIL; PROVIDING AN EFFECTIVE DATE.

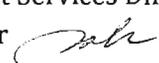
SUMMARY OF PURPOSE AND WHY:

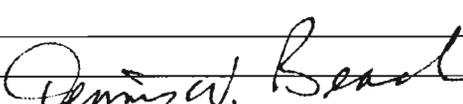
The City earned a FY14/15 Broward Highway Beautification Grant to enhance landscaping roadway medians on Sample Road (SR 834) from the Florida Turnpike to Military Trail. In order to implement the project, the three (3) attached agreements between the City and Florida Department of Transportation (FDOT) are necessary: Locally Funded Agreement (LFA), A Three Party Escrow Agreement and an Amendment number seven (7) to Landscape Inclusive Maintenance Memorandum of Agreement. Total Project Cost is \$409,946 and City's cost share is \$204,973.

QUESTIONS TO BE ANSWERED BY ORIGINATING DEPARTMENT:

- (1) Origin of request for this action: Staff
- (2) Primary staff contact: Robert A. McCaughan, Public Works Director Ext 4097
- (3) Expiration of contract, if applicable: _____
- (4) Fiscal impact and source of funding: Canopy Tree Trust Fund and CIP #14-222 (302-7500-530.65-12)

DEPARTMENTAL COORDINATION	DATE	DEPARTMENTAL RECOMMENDATION	DEPARTMENTAL HEAD SIGNATURE
Public Works	1/15/15	APPROVE	
Finance	1/20/15	APPROVE	
City Attorney	1/20/15	APPROVE	
Budget	1-20-15	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 #2015-418

January 6, 2015

TO: Robert A. McCaughan, Public Works Director
FROM: Gordon B. Linn, City Attorney
RE: Locally Funded Agreement between the City and FDOT

As requested in your memorandum dated December 30, 2014, Public Work's Department Memorandum No. 2015-019, I have prepared and attached the following captioned resolutions:

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF POMPANO BEACH, FLORIDA, APPROVING AND AUTHORIZING THE PROPER CITY OFFICIALS TO EXECUTE A LOCALLY FUNDED AGREEMENT BETWEEN THE CITY OF POMPANO BEACH AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FOR THE INSTALLATION OF LANDSCAPE, IRRIGATION AND/OR HARDSCAPE IMPROVEMENTS ALONG STATE ROAD 834 (SAMPLE ROAD) FROM STATE ROAD 91 (FLORIDA TURNPIKE) TO MILITARY TRAIL; PROVIDING AN EFFECTIVE DATE.

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF POMPANO BEACH, FLORIDA, APPROVING AND AUTHORIZING THE PROPER CITY OFFICIALS TO EXECUTE A THREE PARTY ESCROW AGREEMENT AMONG THE CITY OF POMPANO BEACH, THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION AND THE STATE OF FLORIDA DEPARTMENT OF FINANCIAL SERVICES, DIVISION OF TREASURY, RELATING TO THE LANDSCAPE, IRRIGATION AND/OR HARDSCAPE IMPROVEMENTS PROJECT ALONG STATE ROAD 834 (SAMPLE ROAD) FROM STATE ROAD 91 (FLORIDA TURNPIKE) TO MILITARY TRAIL; PROVIDING AN EFFECTIVE DATE.

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 SEVEN (7) 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 834 (SAMPLE ROAD) FROM STATE
ROAD 91 (FLORIDA TURNPIKE) TO MILITARY TRAIL; PROVIDING AN
EFFECTIVE DATE.**

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



GORDON B. LINN

/jrm
l:cor/pw/2015-418

Attachments

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 SEVEN (7) 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 834 (SAMPLE ROAD) FROM STATE ROAD 91 (FLORIDA TURNPIKE) TO MILITARY TRAIL; PROVIDING AN EFFECTIVE DATE.

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

SECTION 1. That an Amendment Number Seven (7) 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:

MARY L. CHAMBERS, CITY CLERK

"CITY":

Witnesses:

CITY OF POMPANO BEACH

By: _____
LAMAR FISHER, MAYOR

By: _____
DENNIS W. BEACH
CITY MANAGER

Attest:

(SEAL)

MARY L. CHAMBERS
CITY CLERK

Approved As To Form:

GORDON B. LINN
CITY ATTORNEY

STATE OF FLORIDA
COUNTY OF BROWARD

The foregoing instrument was acknowledged before me this ____ day of _____, 2015 by LAMAR FISHER, as Mayor, DENNIS W. BEACH as City Manager and MARY L. CHAMBERS, as City Clerk of the City of Pompano Beach, Florida, a municipal corporation, on behalf of the municipal corporation, who are personally known to me.

NOTARY'S SEAL:

NOTARY PUBLIC, STATE OF FLORIDA

(Name of Acknowledger Typed, Printed or Stamped)

Commission Number

SECTION No.(s): 86028
S.R. No.(s): 834
FM/PERMIT No: 431526-1-52-01/02
COUNTY: BROWARD

EXHIBIT A

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

- I. **LANDSCAPE PROJECT LIMITS:**
State Road 834 (Sample Road) from State Road 91 (Florida Turnpike) (M.P. 5.030) to Military Trail (M.P. 7.116)

- II. **INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT LIMITS:**
State Road 834 (Sample Road) (M.P. 5.030) (Florida Turnpike) to (M.P. 9.481) (State Road 5)

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

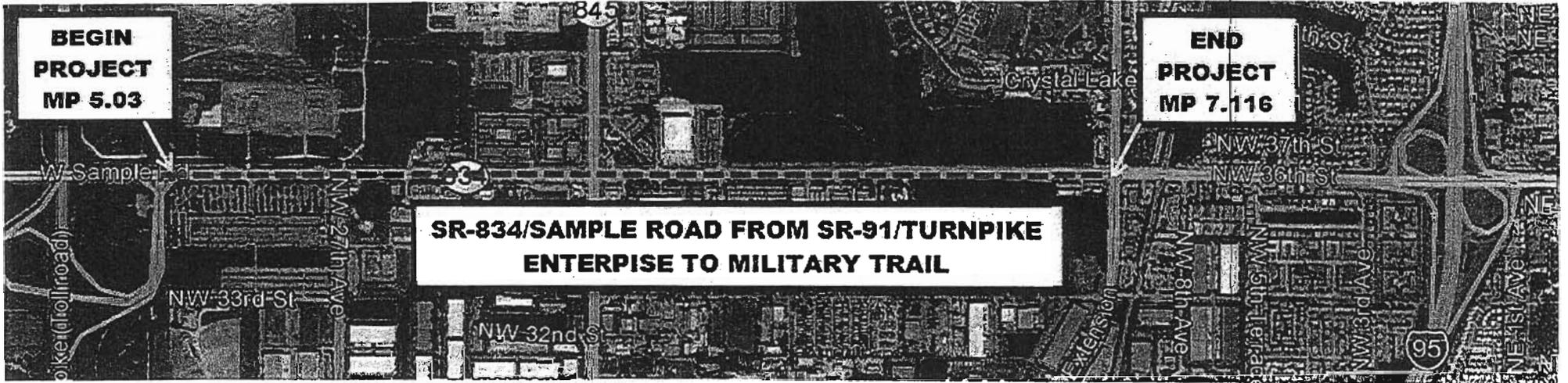
*All limits of the original agreement and amendments shall apply

Please See Attached

**BEGIN
PROJECT
MP 5.03**

**END
PROJECT
MP 7.116**

**SR-834/SAMPLE ROAD FROM SR-91/TURNPIKE
ENTERPISE TO MILITARY TRAIL**



SECTION No.(s): 86028
S.R. No.(s): 834
FM/PERMIT No: 431526-1-52-01/02
COUNTY: BROWARD

EXHIBIT B

LANDSCAPE IMPROVEMENT PLANS

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

Please see attached plans prepared by: Keith and Schnars
Bruce K. Reed, RLA
Date: October 22, 2014

Sheets LD 1-4
Sheets SQ 1 & 2
Sheets LD 5-41

COMPONENTS OF CONTRACT PLANS SET

LANDSCAPE PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2	SIGNATURE SHEET
LD-3	SUMMARY OF PAY ITEMS
LD-4	LANDSCAPE TABULATION
SQ-1	SUMMARY OF QUANTITIES
SQ-2	SUMMARY OF QUANTITIES
LD-5	LANDSCAPE NOTES
LD-6	LANDSCAPE DETAILS
LD-7	SHEET LAYOUT
LD-8 TO LD-26	LANDSCAPE PLAN
LD-27	IRRIGATION NOTES
LD-28	IRRIGATION DETAILS
LD-29	IRRIGATION DETAILS
LD-30	IRRIGATION TABULATION
LD-31 TO LD-38	IRRIGATION PLAN
LD-39	TRAFFIC CONTROL PLAN
LD-40	TRAFFIC CONTROL PLAN
LD-41	STORMWATER POLLUTION PREVENTION PLAN

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION, 2005 DESIGN STANDARDS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, AND 2005 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS.

FOR DESIGN STANDARDS CLICK ON THE "DESIGN STANDARDS" LINK AT THE FOLLOWING WEBSITE:
<http://www.dot.state.fl.us/10001.htm>

FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION CLICK ON THE "SPECIFICATIONS" LINK AT THE FOLLOWING WEBSITE:
<http://www.dot.state.fl.us/specifications/office>

REVISIONS

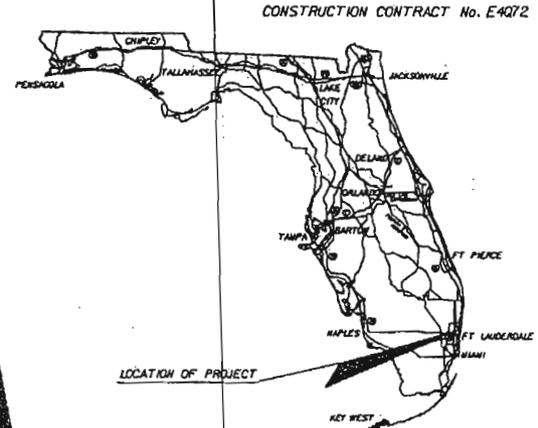
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 431526-1-52-01

BROWARD COUNTY (86028)
STATE ROAD NO. 834/SAMPLE ROAD
FROM SR-91/TURNPIKE ENTERPRISE TO MILITARY TRAIL

LANDSCAPE PLANS



CONSTRUCTION CONTRACT No. E4072

LANDSCAPE SHOP DRAWINGS TO BE SUBMITTED TO:

BRUCE K. REED, P.A.
KEITH AND SCHNARS, P.A.
6500 N. ANDREWS AVE.
FT. LAUDERDALE, FL 33309

PLANS PREPARED BY:

KEITH AND SCHNARS, P.A.
ENGINEERS, PLANNERS, SURVEYORS
6500 N. ANDREWS AVE, FT. LAUDERDALE, FL 33309
(954) 776-1616

CERTIFICATE OF AUTHORIZATION NO. 1337

VENDOR IDENTIFICATION NO. 59-1406-307
CONTRACT NO. CSE38

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

PROGRESS SUBMITTAL

PROJECT LENGTH IS BASED ON BASELINE OF SURVEY

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY		
BRIDGES		
NET LENGTH OF PROJECT	11,014.08	2.086
EXCEPTIONS		
GROSS LENGTH OF PROJECT	11,014.08	2.086

FOOT PROJECT MANAGER: KENZOT JASMIN, P.E.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

LANDSCAPE PLANS
LANDSCAPE ARCHITECT BRUCE K. REED, P.A.
OF RECORD:

RLA NO. 0001479

FISCAL YEAR	SHEET NO.
15	LD-1

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND SIGNED UNDER RULE 600-10.01, F.A.C.

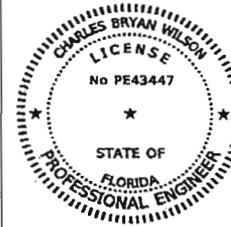


KEITH AND SCHNARS, P.A.
6500 NORTH ANDREWS AVE
FT. LAUDERDALE, FL 33309
CERTIFICATE OF AUTHORIZATION #1337
BRUCE REED, R.L.A. NO. 0001479

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

LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2	SIGNATURE SHEET
LD-3	SUMMARY OF PAY ITEMS
LD-4	TABULATION OF QUANTITIES
SQ-1	SUMMARY OF QUANTITIES
SQ-2	SUMMARY OF QUANTITIES
LD-5	LANDSCAPE NOTES
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LD-40	TRAFFIC CONTROL PLAN
LD-41	STORMWATER POLLUTION PREVENTION PLAN



KEITH AND SCHNARS, P.A.
6500 NORTH ANDREWS AVE
FT. LAUDERDALE, FL 33309
CERTIFICATE OF AUTHORIZATION #1337
CHARLES BRYAN WILSON, P.E. NO. 43447

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

LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-2	SIGNATURE SHEET
SQ-2	SUMMARY OF QUANTITIES
LD-39	TRAFFIC CONTROL PLAN
LD-40	TRAFFIC CONTROL PLAN

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6800-2-01, F.A.C.

REVISIONS				LANDSCAPE ARCHITECT OR IN CHARGE: BRUCE A. REED, R.L.A. 0001479 CERTIFICATE OF AUTHORIZATION #1337			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						834	BROWARD	431526-1-52-01	SIGNATURE SHEET	

10/20/2014 17:05:28 PM

FLORIDA DEPARTMENT OF TRANSPORTATION PROJECT SUMMARY OF PAY ITEMS FOR PROPOSAL: E4Q72						
LEAD PROJECT : 431526-1-52-01			DISTRICT : 04	COUNTY/SECTION : 86028000		
PROJECT(S) : 43152615201			COUNTY : BROWARD			
0600 SUMMARY OF LANDSCAPE / PERIPHERAL						
SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43152615201	QUANTITY TOTAL
		0999- 2-	LUMP SUM CONTRACT, ALTERNATIVE BIDDING 43152615201	LS	1.000	1.000
		0999- 25-	INITIAL CONTINGENCY AMOUNT, DO NOT BID 43152615201	LS	1.000	1.000

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

LANDSCAPE ARCHITECT OF RECORD BRUCE H. JONES, P.L.A. 00881818
 CERTIFICATE OF AUTHORIZATION #11822
KEITH and SCHNARS, P.A.
 8500 N. Andrews Ave., Ft. Lauderdale, FL 33308-2122 (954)776-1818

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

SUMMARY OF PAY ITEMS

SHEET NO.
LD-3

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6000-1-01, F.S.C.

SUMMARY OF LITTER REMOVAL AND MOWING									
PHASE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL			MOWING			REMARKS
			CYCLES	AREA		CYCLES	AREA		
				AC/CYCLE	TOTAL (AC)		AC/CYCLE	TOTAL (AC)	
CONSTRUCTION	70	30	3	1		3	1		
ESTABLISHMENT	730	30	24	1		24	1		

NOTE: LIMITS OF MOWING AND LITTER REMOVAL INCLUDE ALL MEDIANS AND NEWLY SOODED AND PLANTED AREAS WITHIN THE PROJECT LIMITS.

NOTES:

- 1.) SUMMARY OF LITTER REMOVAL AND MOWING APPLIES TO CONSTRUCTION PERIOD ONLY.
- 2.) THE PHASE DURATIONS SHOWN ARE NOT BASED ON PROJECT SCHEDULE AND SHALL NOT BE USED FOR SCHEDULING PURPOSES BY THE CONTRACTOR.

REVISIONS						LANDSCAPE ARCHITECT OF RECORD, BRUCE A. HILL, P.L.L.C. (0801147) CERTIFICATE OF AUTHORIZATION 011301			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	KEITH and SCHNARS, P.A. 6500 N. Andrews Ave., Ft. Lauderdale, FL 33309-2132 (954) 776-1816			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						834	BROWARD	-431526-1-52-01	SUMMARY OF QUANTITIES			SQ-1

NOTICE: THIS DRAWING IS THE PROPERTY OF THE STATE OF FLORIDA. IT IS TO BE USED ONLY FOR THE PROJECT AND NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE STATE OF FLORIDA. BRUCE A. HILL ARCHITECTS, P.L.L.C.

LANDSCAPE NOTES

- 1) FOLLOW THESE NOTES IN ADDITION TO FDOT STANDARD SPECIFICATIONS AND DESIGN STANDARDS.
- 2) VERIFY SITE CONDITIONS BEFORE BIDDING. INSTALLATIONS MAY REQUIRE ADDITIONAL EQUIPMENT FOR SPECIFIC SITE CONDITIONS.
- 3) BEFORE THE PRECONSTRUCTION MEETING, SUBMIT:
 - 3-1) REGISTRATION WITH THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY;
 - 3-2) LANDSCAPE CONTRACTOR CERTIFICATION, BY THE FLORIDA NURSERY, GROWERS, AND LANDSCAPE ASSOCIATION;
 - 3-3) ARBORIST CERTIFICATION, BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE;
 - 3-4) UNIT COST BREAKDOWN FOR EACH ITEM OF WORK;
 - 3-5) WEED CONTROL PRODUCT INFORMATION AND APPLICATION PROCEDURES;
 - 3-6) SOIL AMENDMENT PRODUCT INFORMATION AND APPLICATION PROCEDURES;
 - 3-7) WATERING APPLICATION PROCEDURES;
 - 3-8) FERTILIZER PRODUCT INFORMATION AND APPLICATION PROCEDURES;
 - 3-9) GREEN INDUSTRIES BEST MANAGEMENT PRACTICES CERTIFICATION;
- 4) A CERTIFIED LANDSCAPE CONTRACTOR SHALL DIRECT LANDSCAPE OPERATIONS.

- 5) PLAN DEVIATIONS:
 - INSTALL LARGE PLANTS A MINIMUM OF 7 FEET FROM FIRE PROTECTION EQUIPMENT. INSTALL LARGE PLANT ROOTBALLS A MINIMUM OF 2 FEET FROM UNDERGROUND UTILITIES. INSTALL NO MATERIAL THAT WILL BLOCK OR CREATE CONFLICTS WITH:
 - 5-1) SIGNS;
 - 5-2) GATES;
 - 5-3) LIGHTS;
 - 5-4) BILLBOARDS;
 - 5-5) ACCESS WAYS;
 - 5-6) FIRE HYDRANTS;
 - 5-7) UTILITY RIGHT TREE/RIGHT PLACE SETBACKS;
 - 5-8) OVERHEAD AND UNDERGROUND STRUCTURES AND UTILITIES;
 - 5-9) ANSI Z133 UTILITY CLEARANCE REQUIREMENTS;
 - 5-10) FDOT MAINTENANCE RATING PROGRAM REQUIREMENTS;
 NOTIFICATION IS REQUIRED WHEN THESE ISSUES ARE ENCOUNTERED. FIELD ADJUSTMENTS REQUIRE APPROVAL.

- 6) TREE PROTECTION:
 - BARRICADE AND PROTECT EXISTING PLANTS ADJACENT TO INSTALLATION ACTIVITIES. SUBMIT A SHOP DRAWING OF THE PROTECTION METHOD TO THE DISTRICT LANDSCAPE ARCHITECT FOR REVIEW BEFORE THE PRECONSTRUCTION MEETING, REPLACE PLANTS DAMAGED OR DESTROYED BY CONSTRUCTION WITH THE SAME SPECIES, SIZE, AND QUALITY, OR BETTER.

- 7) SOIL AMENDMENT:
 - BACKFILL PLANTING HOLES WITH A 50/50 MIX OF 100 PERCENT DECOMPOSED COMPOST AND EXISTING SOIL. MIX INTO PLANTING HOLES DURING INSTALLATION. REMOVE ROCKS OVER 1 INCH.

- 8) PLANT ESTABLISHMENT AND MAINTENANCE THROUGHOUT CONSTRUCTION AND THE PLANT ESTABLISHMENT PERIOD:

- 8-1) WEED CONTROL:
 - ERADICATE FLORIDA EXOTIC PEST PLANT COUNCIL CATEGORY ONE INVASIVE PLANT SPECIES AND THEIR SEEDS, AND VINES, BOTH NATIVE AND NON-NATIVE. THIS INCLUDES FROM WALLS AND WITHIN FENCES. APPLY BOTH PRE AND POST-EMERGENT HERBICIDE WITH INDICATOR DYE AND REAPPLY WHEN REGROWTH APPEARS.
- 8-2) WATERING:
 - MAINTAIN THE SOIL MOISTURE AT FIELD CAPACITY. FIELD CAPACITY WILL BE DETERMINED FROM A 4 INCH DEEP EXCAVATION WHERE THE SOIL MUST HOLD TOGETHER AND FORM A HAND CLUMP.
- 8-3) FERTILIZATION:
 - APPLY 13 APPLICATIONS OF 8-2-12+4 MG FERTILIZER, PLUS WATER SOLUBLE MICRONUTRIENTS. 100 PERCENT OF THE (N) NITROGEN, (K) POTASSIUM, (MG) MAGNESIUM AND (B) BORON MUST BE IN SLOW RELEASE FORM. APPLY AT A RATE OF 1.5 POUNDS OF ACTUAL FERTILIZER (NOT N) PER 100 SQUARE FEET

- FROM A CALIBRATED SPREADER. BEGIN FERTILIZATION DURING INSTALLATION AND REPEAT EVERY 3 MONTHS.
- 8-4) MAINTAIN A 3 INCH MULCH COVER.
- 8-5) PRUNING:
 - A CERTIFIED ARBORIST SHALL DIRECT PRUNING OPERATIONS. FOLLOW ANSI A300 PART 1 PRUNING STANDARDS AND THESE PLANS. PRUNING IS REQUIRED DURING INSTALLATION AND THROUGHOUT THE PLANT ESTABLISHMENT PERIOD TO:
 - 8-5.1) REMOVE CROSSING, DEFLECTING, AND CIRCLING ROOTS;
 - 8-5.2) REMOVE CROSSING, DEAD, DAMAGED AND CODOMINANT BRANCHES;
 - 8-5.3) MAINTAIN FLORIDA NUMBER 1 BRANCH STRUCTURE;
 - 8-5.4) MAINTAIN FDOT MAINTENANCE RATING PROGRAM REQUIREMENTS AND MAST ARM CLEARANCES;
 - 8-5.5) MAINTAIN INDEX 546 HORIZONTAL AND VERTICAL CLEARANCES WITHIN THE LIMITS OF CLEAR SIGHT;
 - 8-5.6) MAINTAIN VISIBILITY OF SIGNS;

GENERAL NOTES

- 1) PROTECT ALL PUBLIC LAND CORNERS AND PRIMARY NETWORK CONTROL SURVEY MONUMENTS. CORNERS AND MONUMENTS WITHIN THE WORK ZONE AND IN DANGER OF BEING DAMAGED, DESTROYED OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS BEFORE WORK. UPON PROJECT COMPLETION, RESTORE ALL SUCH CORNERS AND MONUMENTS AND FURNISH TO THE DISTRICT LOCATION SURVEYOR, A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING.
- 2) EXCESS MATERIAL, AS DESIGNATED BY THE ENGINEER, IS TO BE DISPOSED OF IN AREAS PROVIDED BY HIM WITHIN 72 HOURS OF BEING DEPOSITED IN THE CONSTRUCTION AREA.
- 3) EXISTING UTILITIES ARE BACKFILLED WITH FLOWABLE FILL. LARGE CHUNKS OF EXCAVATED MATERIAL SHALL BE REPLACED WITH SUITABLE MATERIAL OR PROCESSED TO MAKE THEM SUITABLE FOR BACKFILLING OR EMBANKMENT CONSTRUCTION.
- 4) THE CONTRACTOR SHALL PERFORM STANDARD CLEARING AND GRUBBING FOR THE WORK BEING DONE AS APPROVED BY THE ENGINEER.

UTILITY NOTES

- 1) FOR UTILITY ADJUSTMENT SYMBOLS, SEE STANDARD INDEX NO.002.
- 2) ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- 3) TWO FULL BUSINESS DAYS PRIOR TO DIGGING, CALL SUNSHINE STATE ONE CALL OF FLORIDA, TELEPHONE NUMBER 811, AND THE UTILITY OWNER AND REQUEST UTILITY LOCATIONS. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.
- 4) THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT MAY HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND THESE LATERAL SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.

UTILITY CONTACT LIST

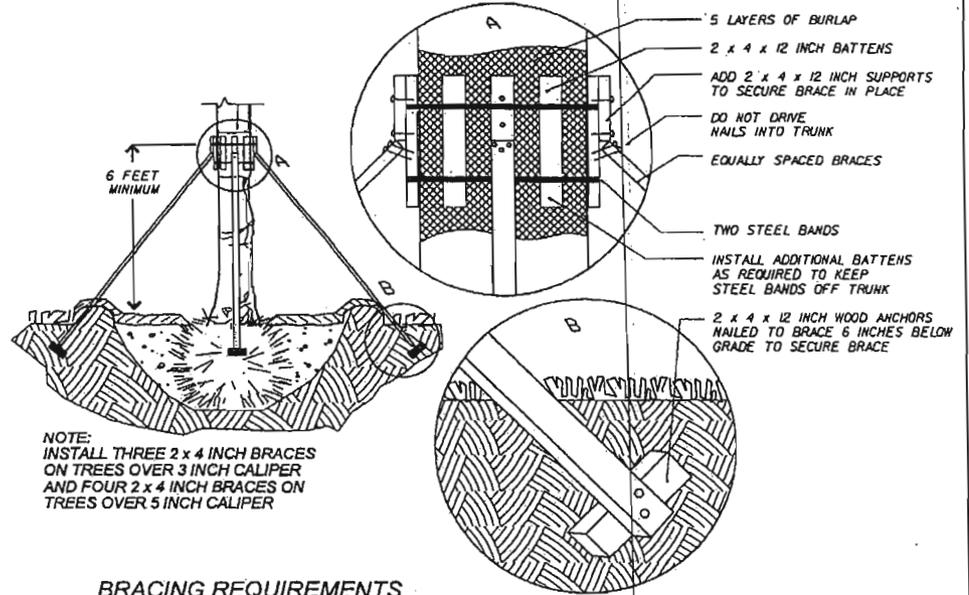
- AT&T / DISTRIBUTION: OTIS KEEVE 954-723-2540
- AT&T / TRANSMISSION: GREGORY T. JACOBSON 813-342-0513
- BROWARD COUNTY TRAFFIC ENGINEERING: GREG LOVAGLIO. 954-847-2752.
- BROWARD COUNTY PUBLIC WORKS, DEPT., WATER AND WASTEWATER SERVICES: COMCAST CABLE: LEONARD MAXWELL-NEWBOLD. 954-447-8405.
- CITY OF POMPAHO BEACH; WATER / SEWER, ALESSANDRA DELFICO, 954-786-4144
- CITY OF DEERFIELD BEACH; BERNARD BUXTON-TETTEH. 954-480-4432
- FLORIDA GAS TRANSMISSION: JOSEPH E. SANCHEZ. 407-838-7171.
- FLORIDA POWER & LIGHT; TRACY STERN. 800-868-9554
- FLORIDA'S TURNPIKE OPERATIONS CENTER; MS. DORIAN BOTERO. 954-994-1625
- FPL FIBERNET LLC; DANNY HASKETT. 305-552-2931
- LEVEL 3 COMMUNICATIONS, LLC; NETWORK RELATIONS. 877-366-8344
- TECO PEOPLES GAS; YVONNE GOLDMAN. 954-453-0824

REVISIONS						LANDSCAPE ARCHITECT OF RECORD: KEITH & SCHNARS, P.A. 80019th CERTIFICATE OF AUTHORIZATION #1527	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						834	BROWARD	431526-1-52-01	LANDSCAPE NOTES	LD-5

NOTICE: THE ORIGINAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND SEALED UNDER RULE 6000-10.04, F.A.C.

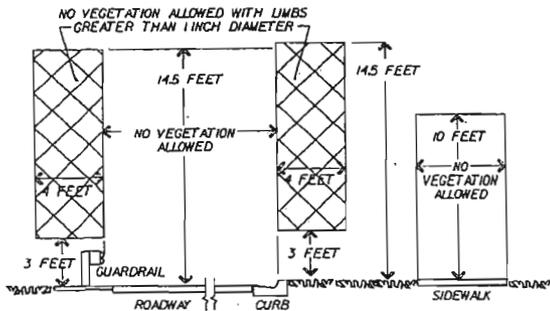
BRACING DETAILS ARE IN ADDITION TO INDEX 544 BRACING DETAILS

NOT TO SCALE

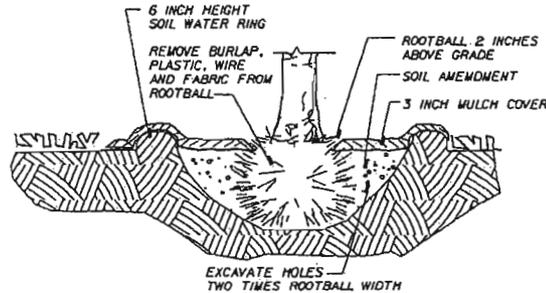


NOTE:
INSTALL THREE 2 x 4 INCH BRACES
ON TREES OVER 3 INCH CALIPER
AND FOUR 2 x 4 INCH BRACES ON
TREES OVER 5 INCH CALIPER

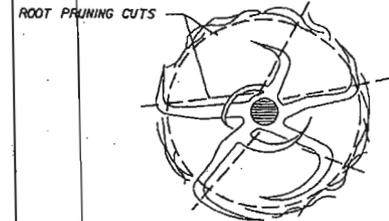
BRACING REQUIREMENTS



MAINTENANCE RATING PROGRAM REQUIREMENTS



INSTALLATION REQUIREMENTS



NOTE:
CUT CROSSING, DEFLECTING AND CIRCLING
ROOTS BEFORE INSTALLATION. THIS MAY
REQUIRE CUTTING ALL OF THE ROOTS AT
THE ROOTBALL PERIMETER, RADIALLY
PRUNING THE ROOTBALL TOP TO BOTTOM
AND CUTTING INDIVIDUAL ROOTS.

ROOT PRUNING REQUIREMENT

REVISIONS			
DATE	BY	DESCRIPTION	DATE

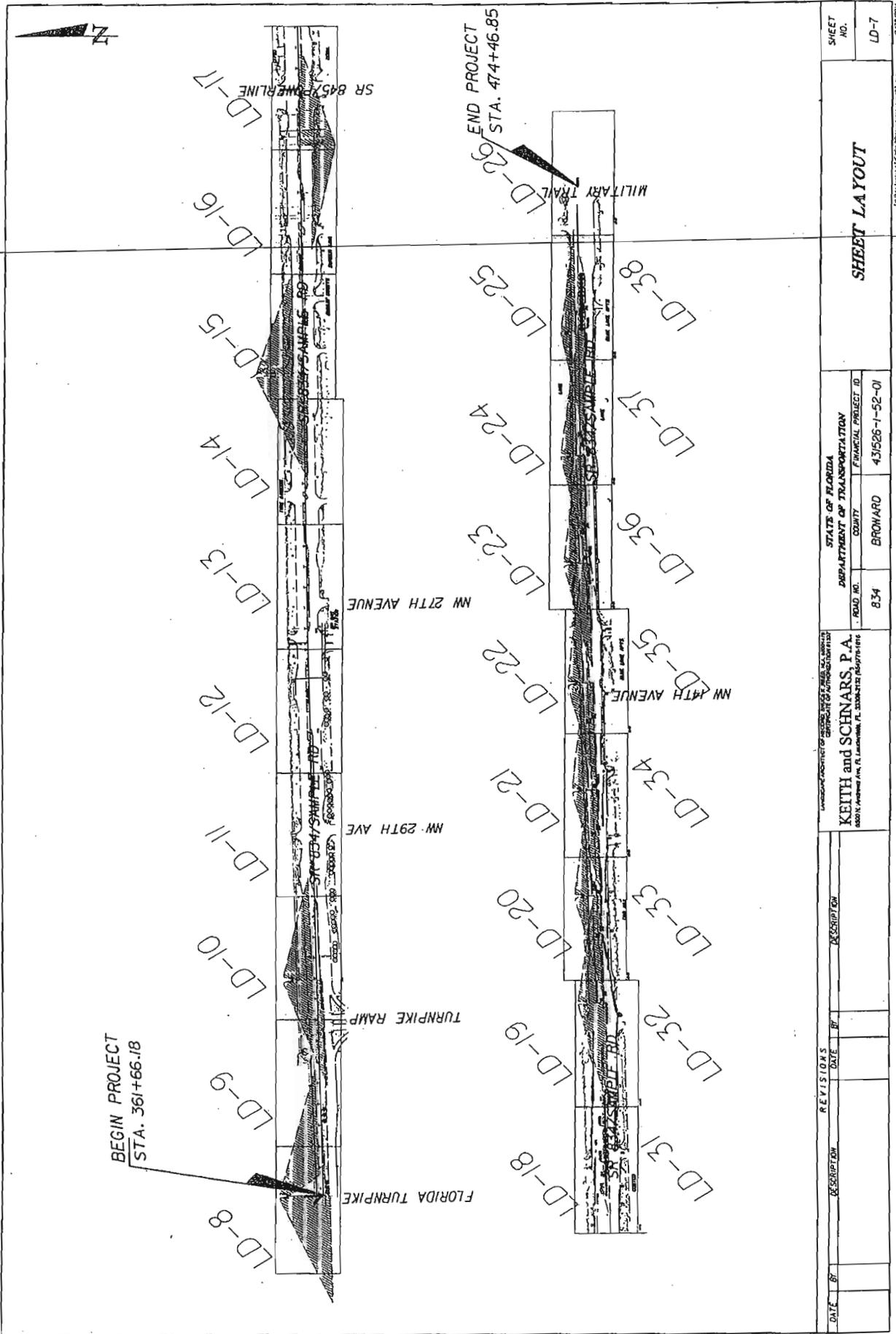
LANDSCAPE ARCHITECT OF RECORD: KEITH & SCHNARS, P.A. MEMBER OF THE NATIONAL SOCIETY OF PROFESSIONAL LANDSCAPE ARCHITECTS
KEITH and SCHNARS, P.A.
 6500 N. Andrews Ave., Ft. Lauderdale, FL 33309-5132 (954) 774-1014

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE DETAILS

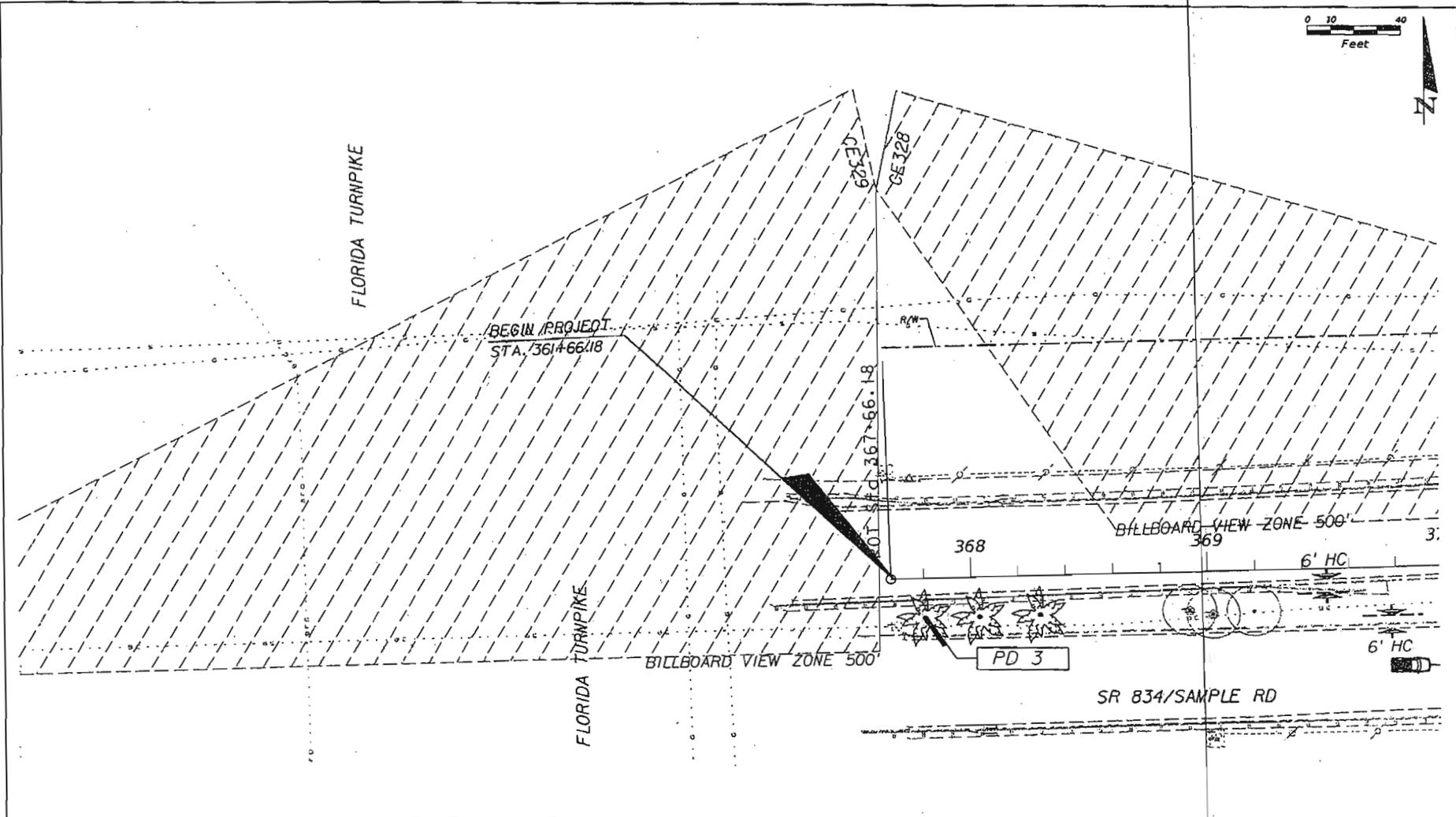
SHEET NO.
LD-6

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6100-8.04, F.A.C.



REVISIONS		DESCRIPTION		DATE		BY	

LICENSED ARCHITECT OF PROFESSIONAL ENGINEER KEITH and SCHNARS, P.A. 6800 N. ANDERSON AVE., FT. LAUDERDALE, FL 33309-3732 (954) 776-1816		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		FINANCIAL PROJECT ID 431526-1-52-01	
ROAD NO.	834	COUNTY	BRONARD	SHEET NO.	
SHEET LAYOUT				LD-7	



LEGEND	
	EXISTING TREE
BN	BISMARCKIA NOBILIS
BS	BURSERIA SIMARUBA
LI	LAGERSTROEMIA INDICA
PE	PTYCHOSPERMA ELEGANS
PD	PHOENIX DACTYLIFERA "MEDJOL"
QV	QUERCUS VIRGINIANA
RE	ROYSTONIA ELATA

DATE		BY	DESCRIPTION	REVISIONS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

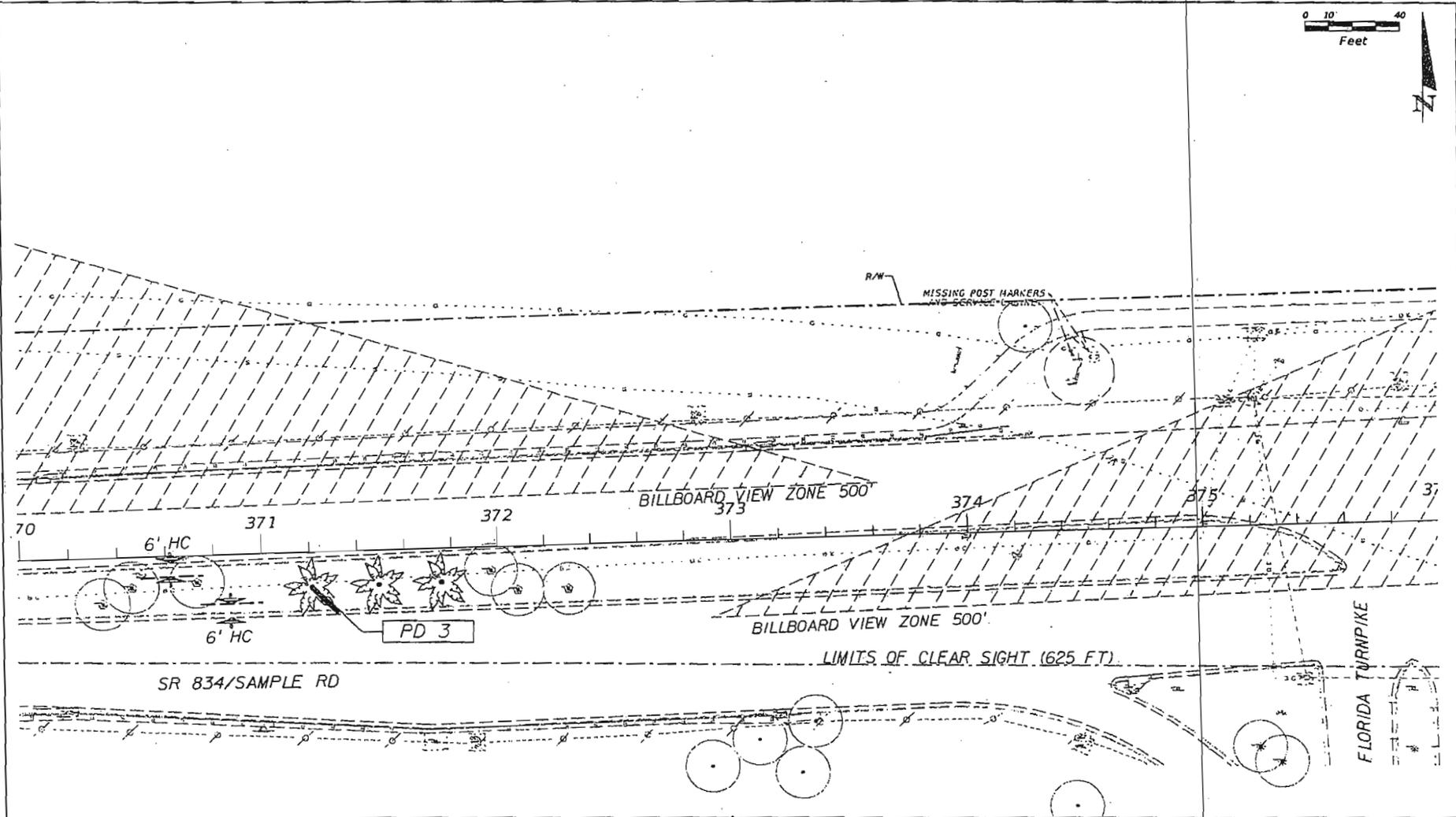
KEITH and SCHNARS, P.A.
REGISTERED ARCHITECT OF RECORD, REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORIZATION #1127
 8500 P.E. Andrews Ave., Ft. Lauderdale, FL 33309-2132 (954)776-1910

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-8

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 600-1.001, F.A.C.



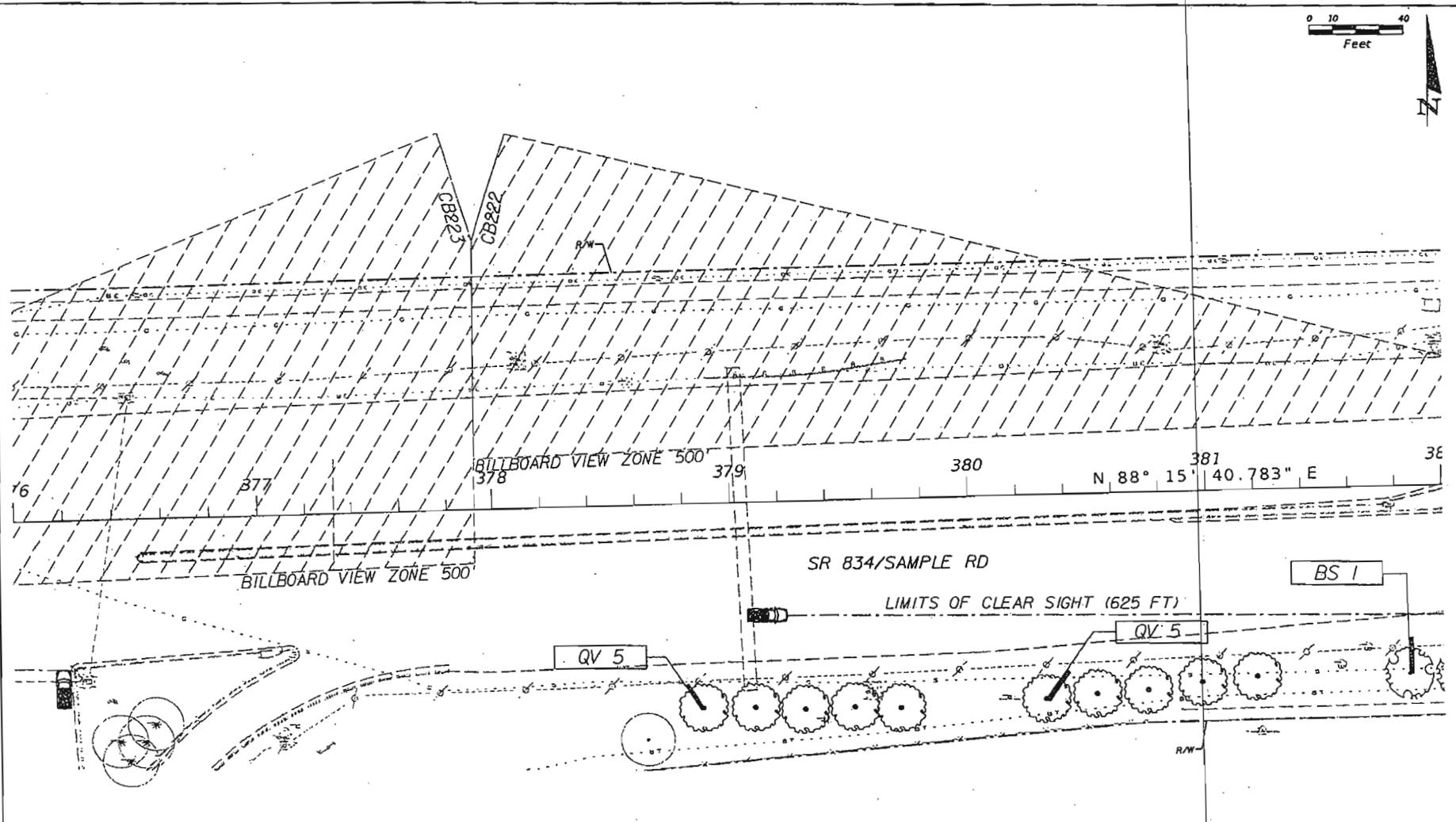
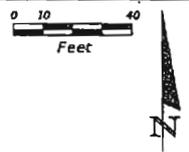
LEGEND	
	BN BISMARKIA NOBILIS LI LAGERSTROEMIA INDICA PD PHOENIX DACTYLIFERA "MEDJOL" RE ROYSTONEA ELATA
	BS BURSERA SIMARUBA PE PTYCHOSPERMA ELEGANS QV QUERCUS VIRGINIANA
	EXISTING TREE

REVISIONS	
DATE	DESCRIPTION

KEITH and SCHNARS, P.A. <small>LANDSCAPE ARCHITECTS OF RECORD (SINCE 1985) (P.A. 8001131) CERTIFICATE OF AUTHORIZATION #1131</small>		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN	
SHEET NO.	LD-09

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND SEALED UNDER RULE 600-10.04, F.A.C.



REVISIONS		LEGEND			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

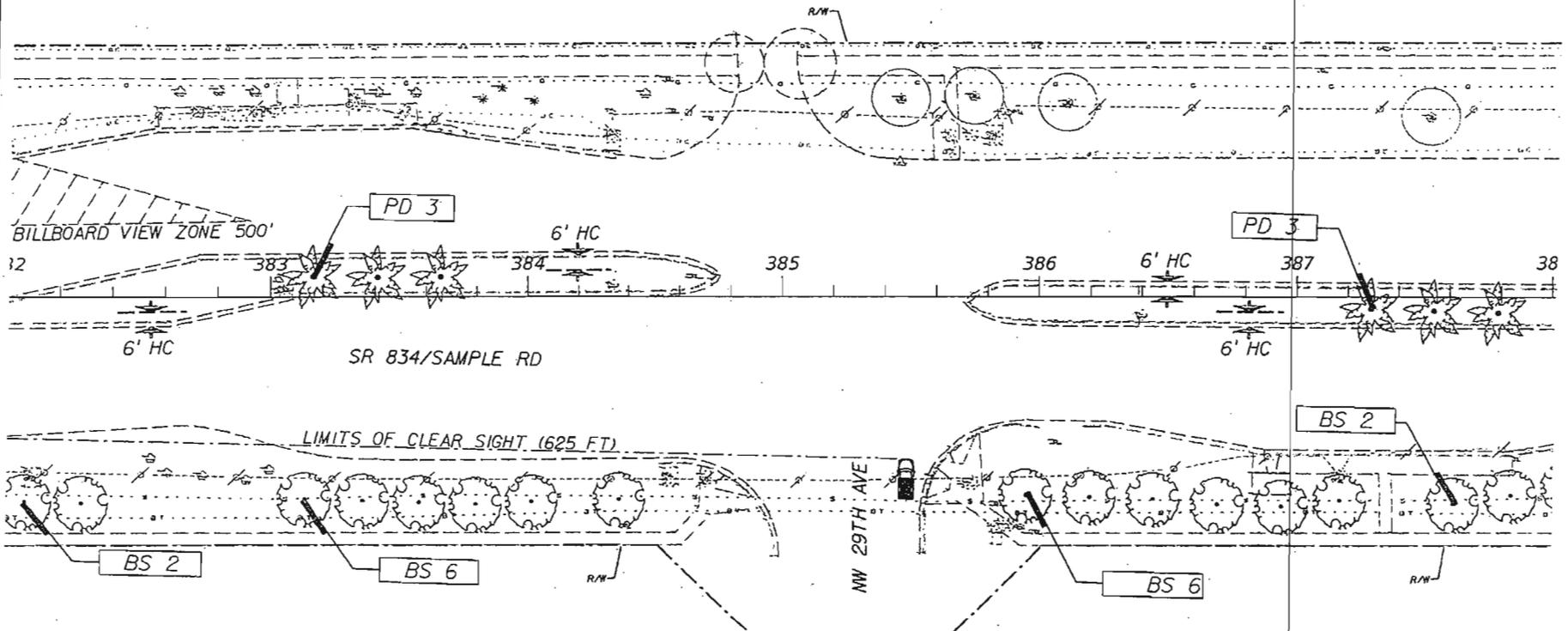
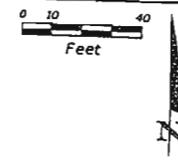
BN	BISMARKIA NOBILIS	LI	LAGERSTROEMIA INDICA	PD	PHOENIX DACTYLIFERA "MEDJOL"	RE	ROYSTONEA ELATA
BS	BURSERIA SIMARUBA	PE	PTYCHOSPERMA ELEGANS	QV	QUERCUS VIRGINIANA		

DATE	BY	DESCRIPTION

KEITH and SCHNARS, P.A. <small>LANDSCAPE ARCHITECTS OF RECORD (SINCE 1982) (S.A. NUMBER 11133) CERTIFICATE OF AUTHORIZATION #1331</small>		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN		SHEET NO.
		LD-10

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 600-11.011, F.A.C.



REVISIONS		LEGEND			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

	EXISTING TREE	BN	BISMARKIA NOBILIS	LI	LAGERSTROEMIA INDICA	PD	PHOENIX DACTYLIFERA "MEDJOO"	RE	ROYSTONEA ELATA
		BS	BURSERIA SIMARUBA	PE	PTYCHOSPERMA ELEGANS	QV	QUERCUS VIRGINIANA		

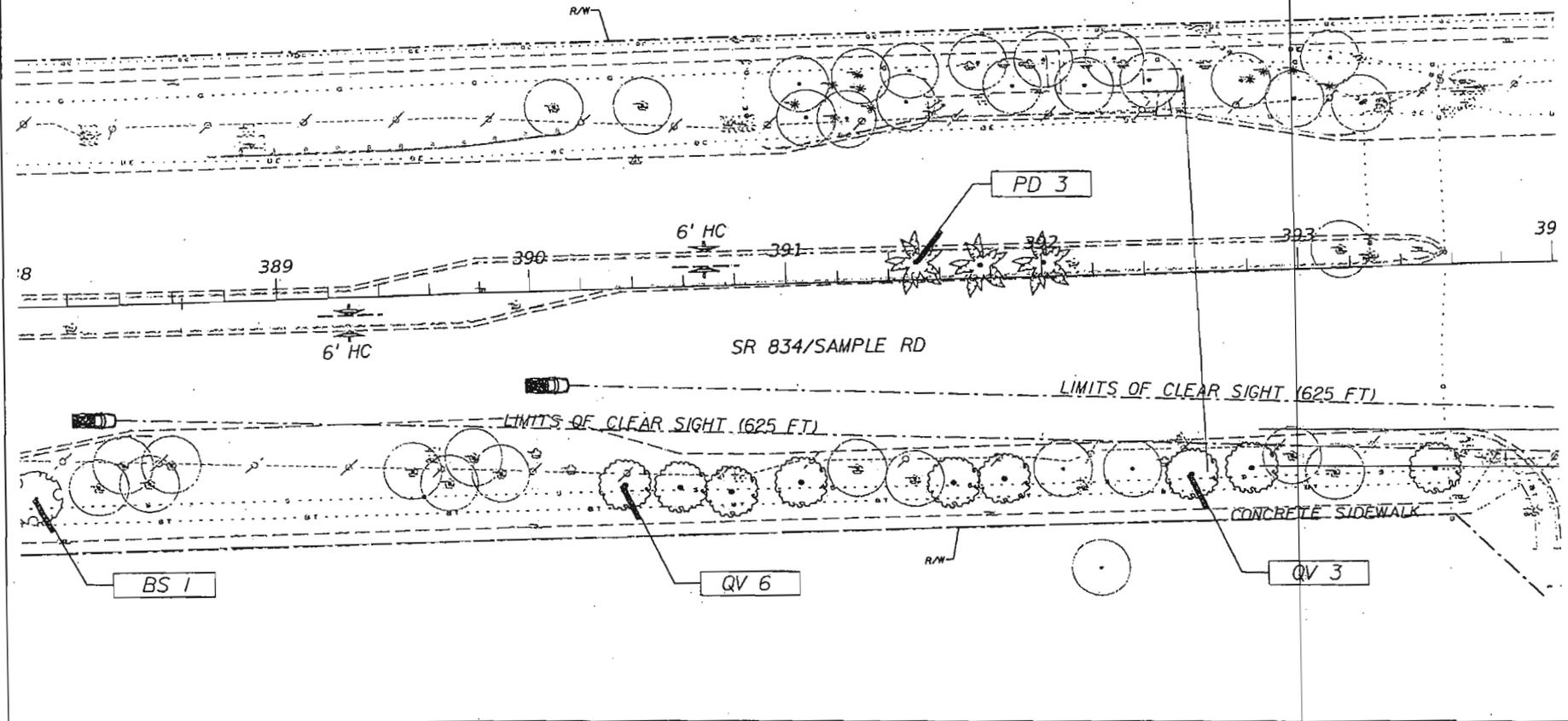
LANDSCAPE ARCHITECT OF RECORD (SCALE & SEAL) (P.A. #108107)
 CERTIFICATE OF AUTHORIZATION #13311
KEITH and SCHNARS, P.A.
 6000 N. Andrews Ave., Ft. Lauderdale, FL 33308-2132 (954) 776-1919

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-II

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 600-11.04, F.A.C.



REVISIONS		LEGEND			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

	BN BISMARKIA NOBILIS	LI LAGERSTROEMIA INDICA	PD PHOENIX DACTYLIFERA "MEDJOL"	RE ROYSTONEA ELATA
	BS BURSERIA SIMARUBA	PE PTYCHOSPERMA ELEGANS	QV QUERCUS VIRGINIANA	

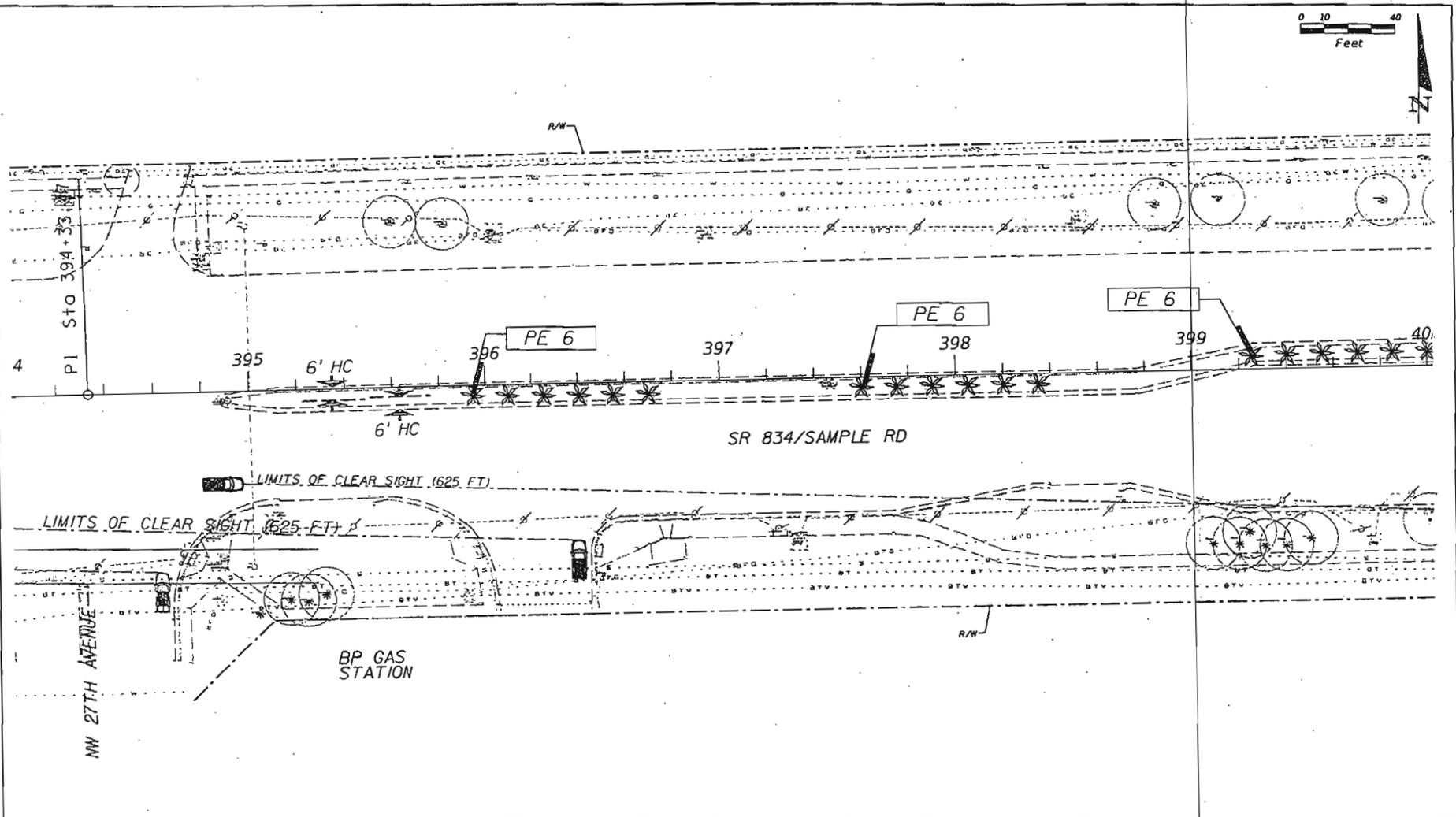
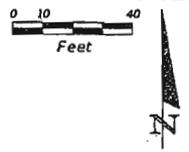
LANDSCAPE ARCHITECT OF RECORD (PROFESSIONAL SEAL AND CERTIFICATE OF AUTHORIZATION #1133)
KEITH and SCHNARS, P.A.
 4800 N. Andrews Ave., Ft. Lauderdale, FL 33309-2132 (954)776-1918

STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-12

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6009-10.01, F.A.C.



LEGEND	
	EXISTING TREE
BN	BISMARKIA NOBILIS
BS	BURSERA SIMARUBA
LI	LAGERSTROEMIA INDICA
PE	PTYCHOSPERMA ELEGANS
PD	PHOENIX DACTYLIFERA "MEDJOL"
QV	QUERCUS VIRGINIANA
RE	ROYSTONEA ELATA

REVISIONS			
DATE	BY	DESCRIPTION	

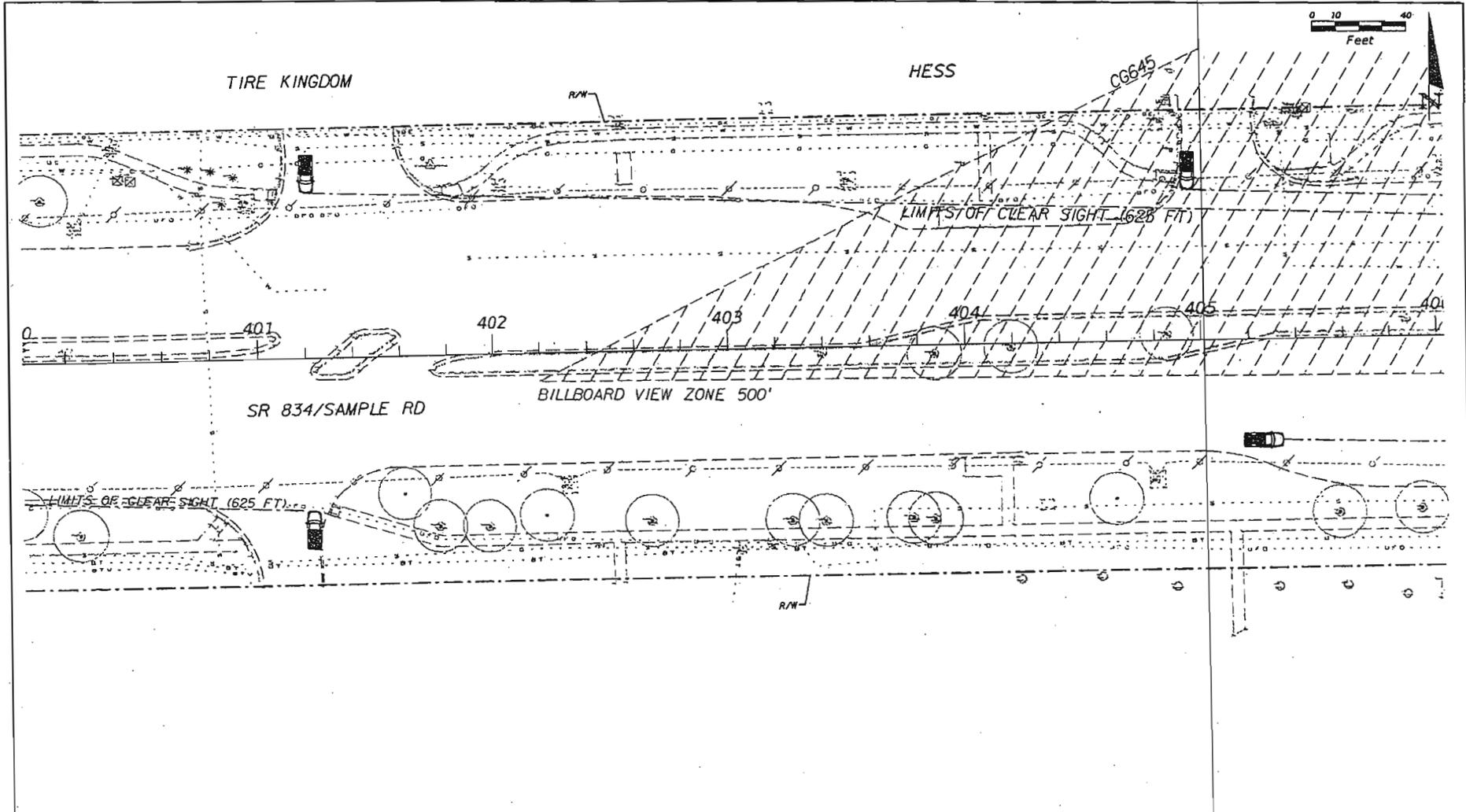
KEITH and SCHNARS, P.A.
LANDSCAPE ARCHITECT OF RECORD SINCE 6-1-82 (FL REG. 1211)
 CERTIFICATE OF AUTHORIZATION #1201
 8500 N. Andrews Ave., Ft. Lauderdale, FL 33309-2132 (954) 776-1810

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	43/526-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-13

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND SEALED UNDER RULE 6009-11.04, F.A.C.



LEGEND	
EXISTING TREE	BN BISMARKIA NOBILIS LI LAGERSTROEMIA INDICA PD PHOENIX DACTYLIFERA "MEDJOL" RE ROYSTONEA ELATA BS BURSERIA SIMARUBA PE PTYCHOSPERMA ELEGANS QV QUERCUS VIRGINIANA

DATE		BY	DESCRIPTION	REVISIONS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

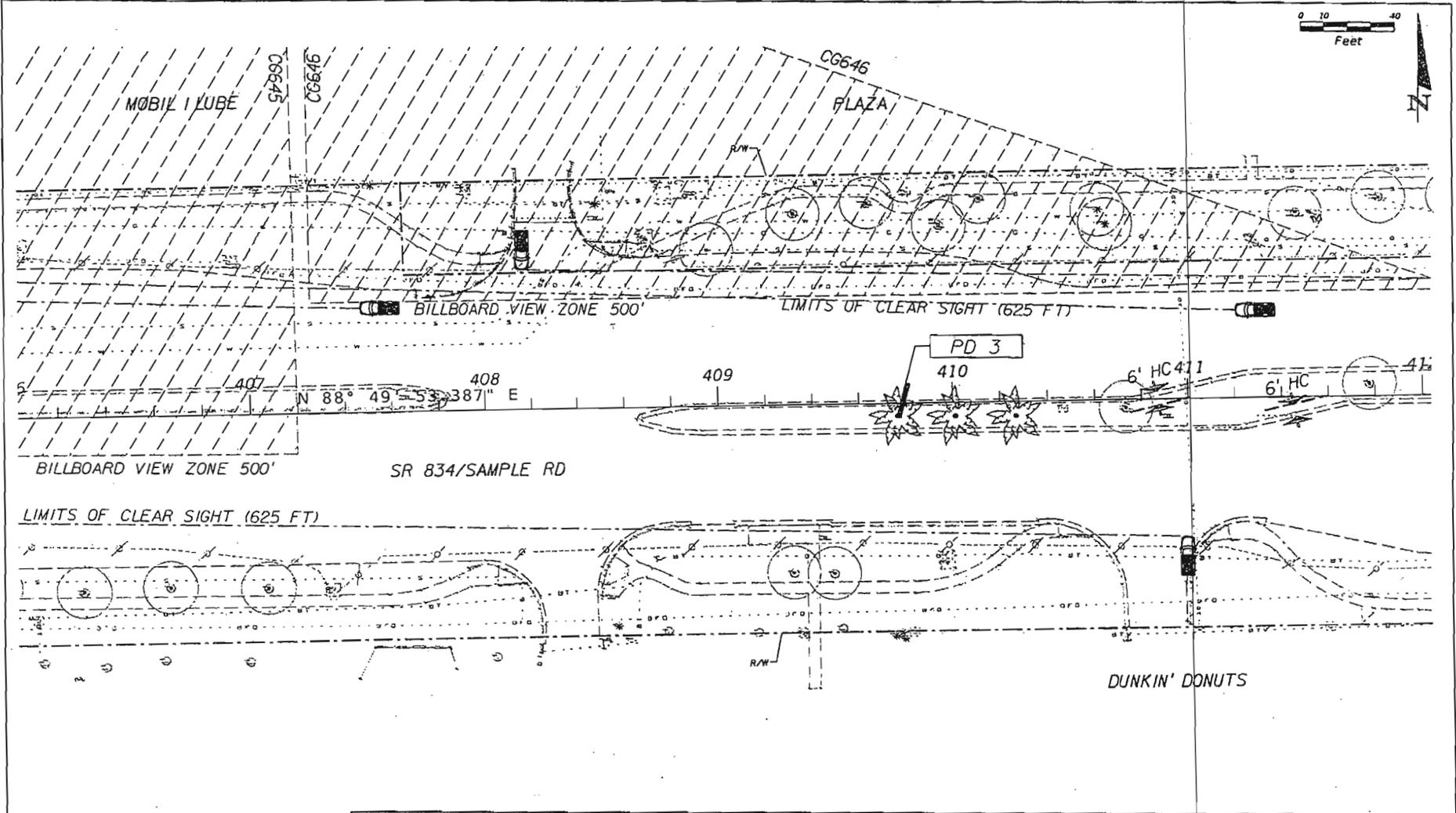
KEITH and SCHNARS, P.A.
 LANDSCAPE ARCHITECTS OF RECORD, SIMPSON, JENSEN, & ASSOCIATES, INC.
 8300 N. Andrews Ave., Ft. Lauderdale, FL 33308-2132 (954) 778-1018

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-14

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND SEALED UNDER RULE 600-H-04, F.A.C.



LEGEND	
	EXISTING TREE
BN	BISMARKIA NOBILIS
BS	BURSERA SIMARUBA
LI	LAGERSTROEMIA INDICA
PE	PTYCHOSPERMA ELEGANS
PD	PHOENIX DACTYLIFERA "MEDJOL"
QV	QUERCUS VIRGINIANA
RE	ROYSTONEA ELATA

REVISIONS			
DATE	BY	DESCRIPTION	

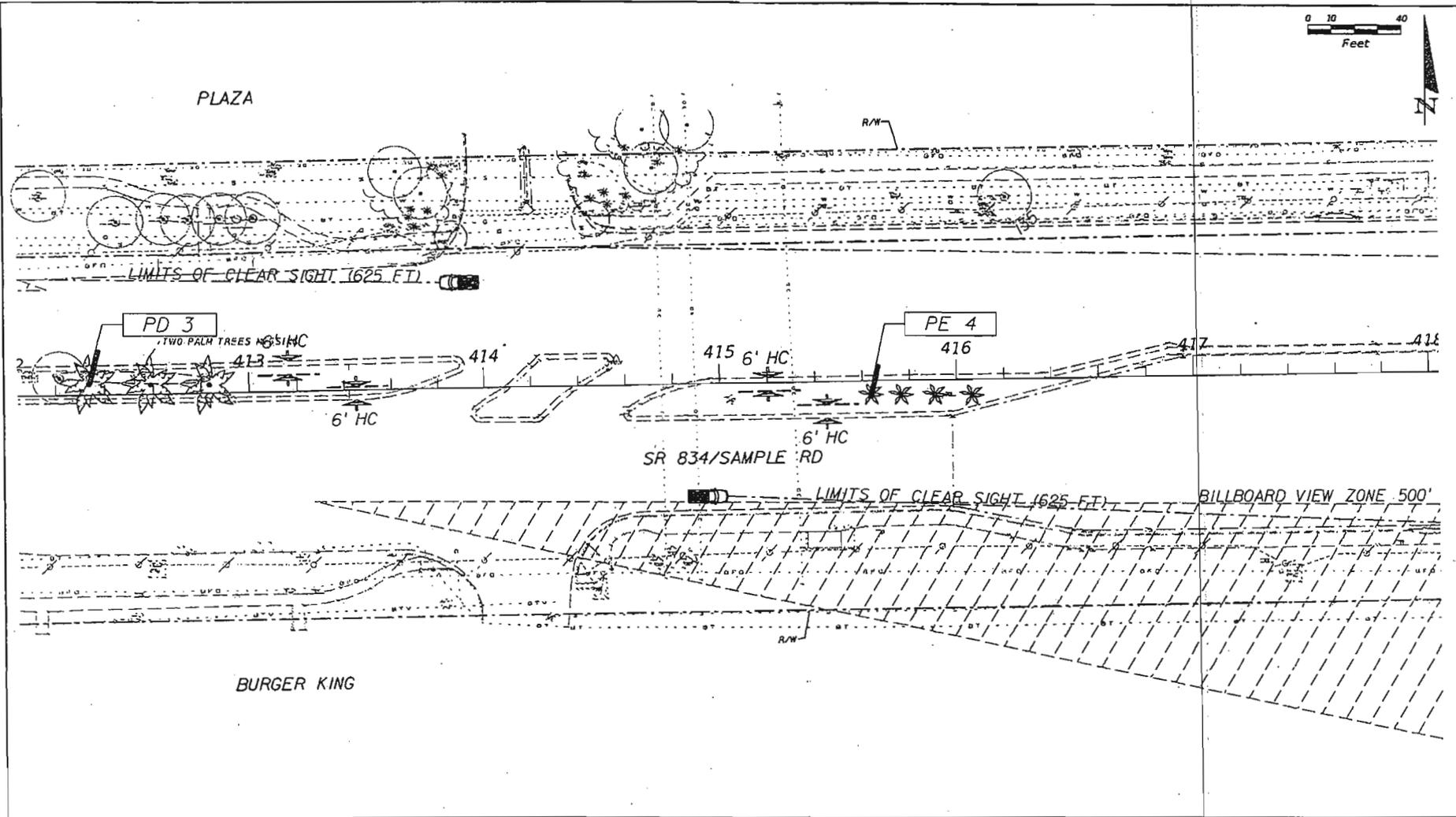
LANDSCAPE ARCHITECT OF RECORD SINCE 11.15.00 (FLA. BOARD OF PROFESSIONAL LANDSCAPE ARCHITECTS)
 CERTIFICATE OF AUTHORIZATION #1532
KEITH and SCHNARS, P.A.
 6500 N. Andrews Ave., Ft. Lauderdale, FL 33309-2122 (954) 770-1818

STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN

SHEET NO.
 LD-15

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 600-H.01, F.A.C.



REVISIONS		LEGEND			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

BN	BISMARKIA NOBILIS	LI	LAGERSTROEMIA INDICA	PD	PHOENIX DACTYLIFERA "MEDJOO"	RE	ROYSTONEA ELATA
BS	BURSERIA SIMARUBA	PE	PTYCHOSPERMA ELEGANS	QV	QUERCUS VIRGINIANA		

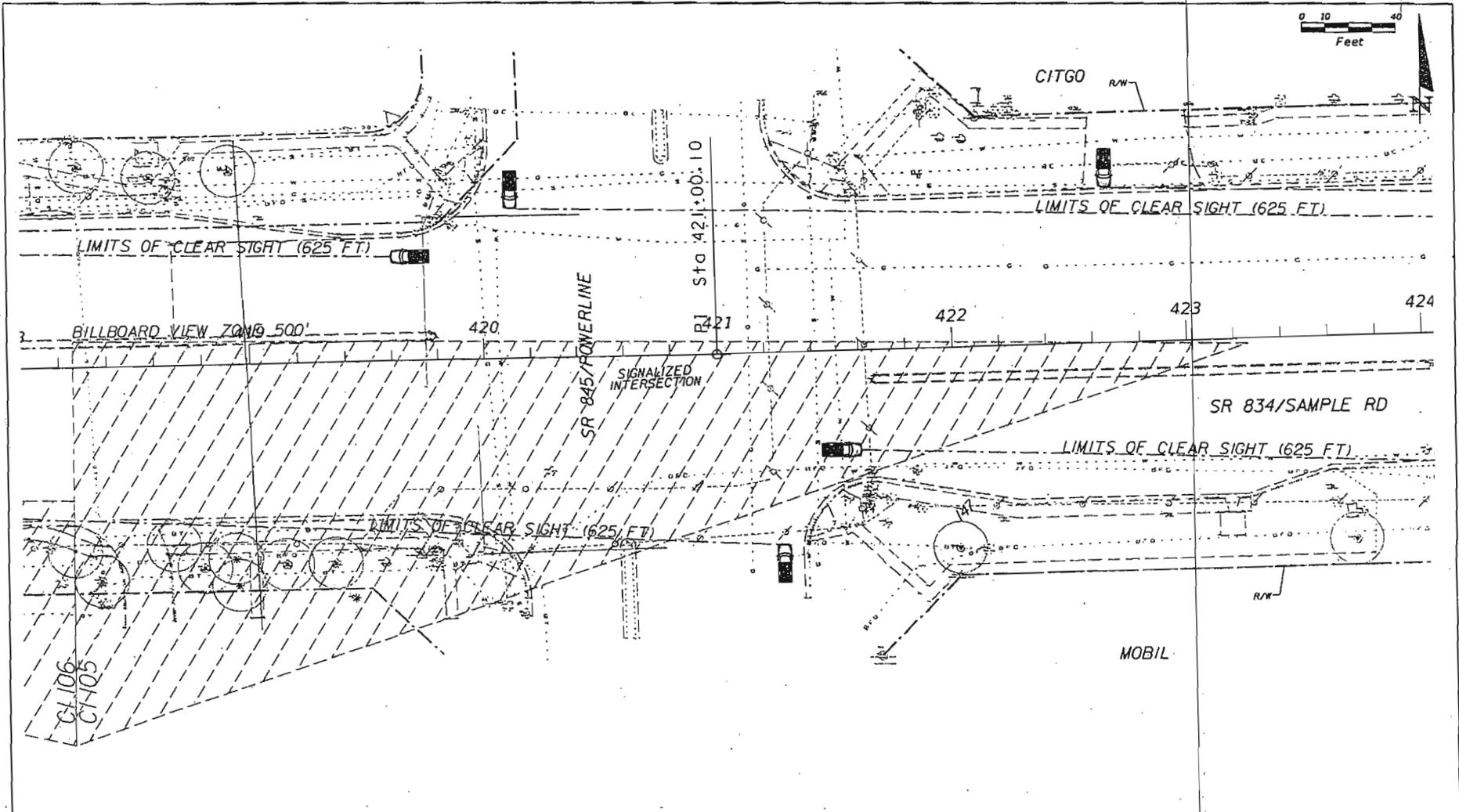
KEITH and SCHNARS, P.A.
 LANDSCAPE ARCHITECTS OF RECORD, PRINCIPAL & REGISTERED PROFESSIONAL ARCHITECTS
 CERTIFICATE OF AUTHORIZATION #11337
 6500 N. Andrews Ave., Ft. Lauderdale, FL 33309-2722 (954)770-1018

STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-16

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND SEALED UNDER RULE 6000-R-04, F.A.C.



REVISIONS		LEGEND			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

EXISTING TREE	BN BISMARKIA NOBILIS	LI LAGERSTROEMIA INDICA	PD PHOENIX DACTYLIFERA "MEDJOL"	RE ROYSTONEA ELATA
	BS BURSERIA SIMARUBA	PE PTYCHOSPERMA ELEGANS	QV QUERCUS VIRGINIANA	

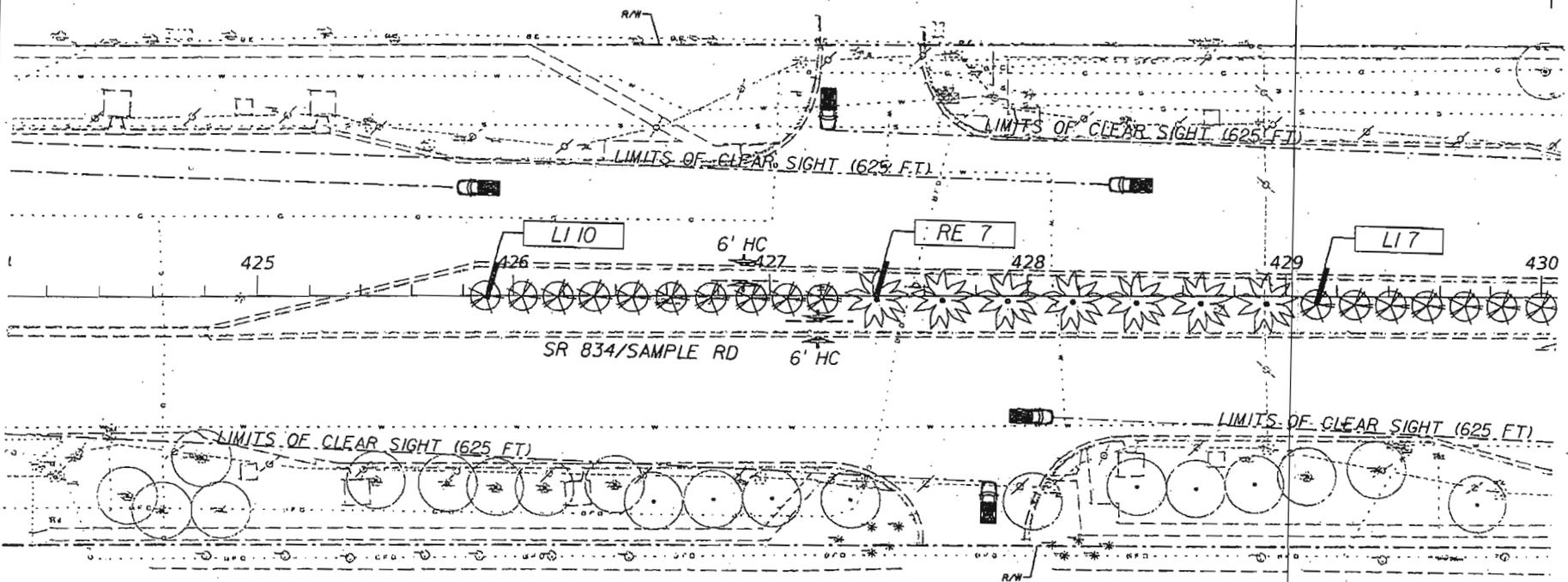
LANDSCAPE ARCHITECT OF RECORD
 KEITH and SCHNARS, P.A.
 8500 N. Andrews Ave., Ft. Lauderdale, FL 33308-2132 (954) 771-1818
 CERTIFICATE OF AUTHORIZATION #1197

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-17

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 600-H.01, F.A.C.



LEGEND	
	EXISTING TREE
BN	BISMARKIA NOBILIS
BS	BURSERIA SIMARUBA
LI	LAGERSTROEMIA INDICA
PE	PTYCHOSPERMA ELEGANS
PD	PHOENIX DACTYLIFERA "MEDJOL"
QV	QUERCUS VIRGINIANA
RE	ROYSTONIA ELATA

REVISIONS	
DATE	BY

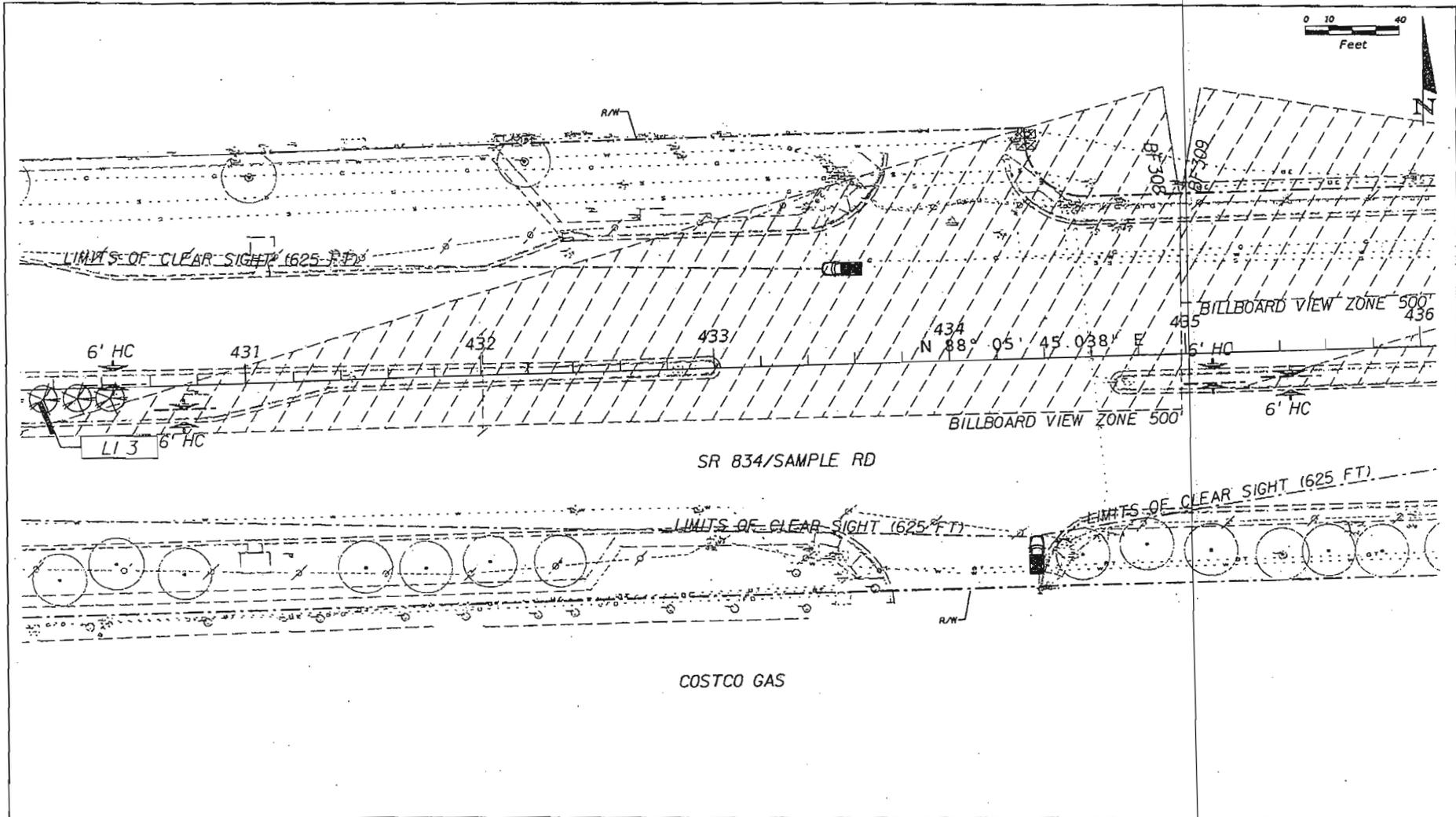
LANDSCAPE ARCHITECT OF RECORD SINCE 11 FEBRUARY 1981
 CERTIFICATE OF AUTHORIZATION #11321
KEITH and SCHNARS, P.A.
 8000 N. Andrews Ave., Ft. Lauderdale, FL 33309-2132 (954)778-1816

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-18

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6000-10.04, F.A.C.



LEGEND	
	EXISTING TREE
BN	BISMARCKIA NOBILIS
BS	BURSERIA SIMARUBA
LI	LAGERSTROEMIA INDICA
PE	PTYCHOSPERMA ELEGANS
PD	PHOENIX DACTYLIFERA "MEDJOL"
QV	QUERCUS VIRGINIANA
RE	ROYSTONEA ELATA

REVISIONS			
DATE	BY	DESCRIPTION	DATE

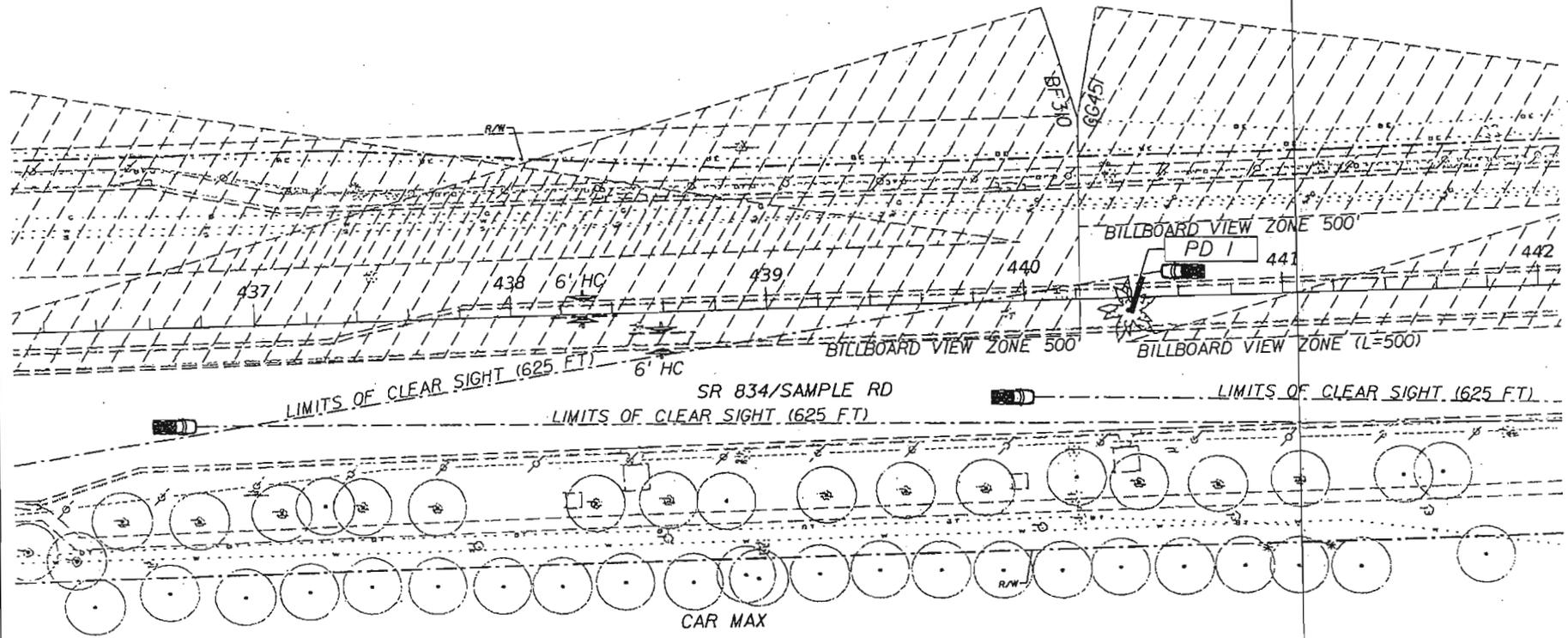
KEITH and SCHNARS, P.A.
LANDSCAPE ARCHITECT OF RECORD SINCE R. FIELD, M.L.A. 1922 (L1)
 CERTIFICATE OF AUTHORIZATION #1331
 4300 N. Andrews Ave., Ft. Lauderdale, FL 33308-2132 (954)775-1010

STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-19

NOTICE: THE DIGITAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 600-0.04, F.A.C.



REVISIONS		LEGEND			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

	EXISTING TREE	BN	BISMARKIA NOBILIS	LI	LAGERSTROEMIA INDICA	PD	PHOENIX DACTYLIFERA "MEDJOL"	RE	ROYSTONEA ELATA
		BS	BURSERIA SIMARUBA	PE	PTYCHOSPERMA ELEGANS	QV	QUERCUS VIRGINIANA		

LANDSCAPE ARCHITECT OF RECORD, LICENSE # 11452, P.L.A. 00001711
 CERTIFICATE OF AUTHORIZATION # 1552

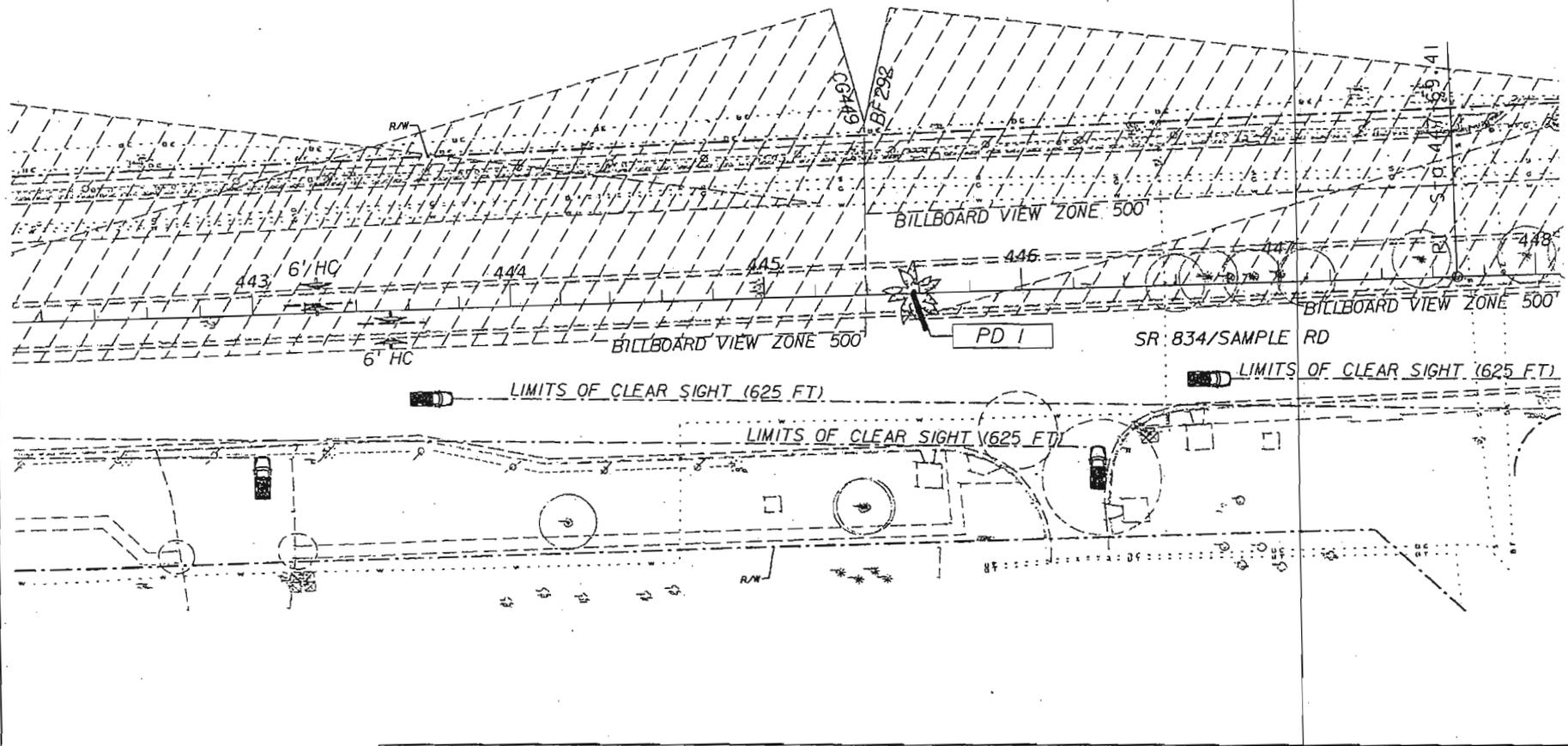
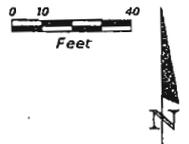
KEITH and SCHNARS, P.A.
 6500 N. Andrews Ave., Ft. Lauderdale, FL 33309-2122 (954) 778-1818

STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-20

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND SEALED UNDER RULE 600-9.04, F.A.C.



REVISIONS		LEGEND			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

BN BISMARKIA NOBILIS	LI LAGERSTROEMIA INDICA	PD PHOENIX DACTYLIFERA "MEDJOL"	RE ROYSTONEA ELATA
BS BURSERIA SIMARUBA	PE PTYCHOSPERMA ELEGANS	QV QUERCUS VIRGINIANA	

EXISTING TREE

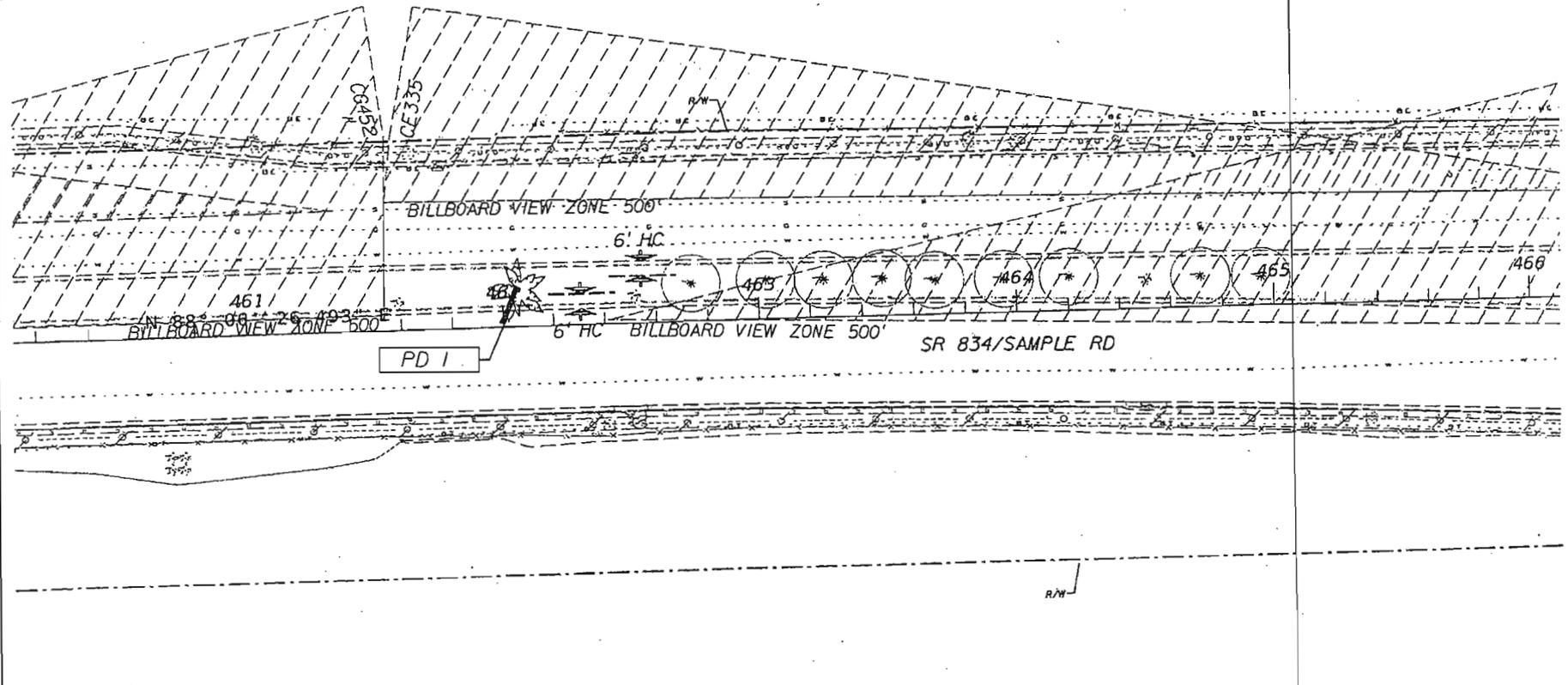
KEITH and SCHNARS, P.A.
LANDSCAPE ARCHITECT OF RECORD AND SEALER (FLA. REG. NO. 00001110)
 CERTIFICATE OF AUTHORIZATION #1101
 6000 N. Andrews Ave., Ft. Lauderdale, FL 33308-2122 (954)778-1818

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-21

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 60D-1.001, F.A.C.



REVISIONS		LEGEND			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

	EXISTING TREE	BN	BISMARKIA NOBILIS	LI	LAGERSTROEMIA INDICA	PD	PHOENIX DACTYLIFERA "MEDJOL"	RE	ROYSTONEA ELATA
		BS	BURSERIA SIMARUBA	PE	PTYCHOSPERMA ELEGANS	QV	QUERCUS VIRGINIANA		

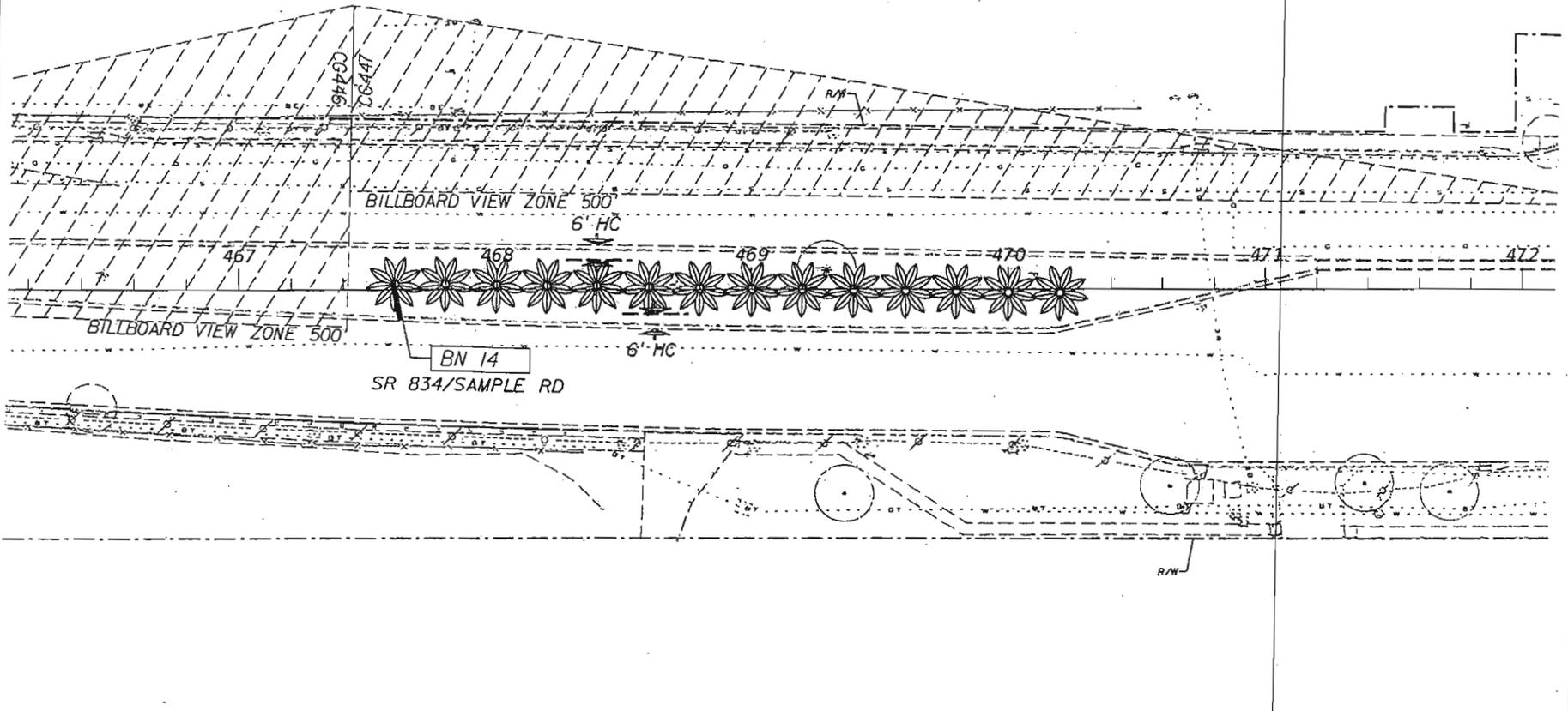
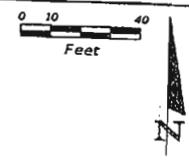
LANDSCAPE ARCHITECT OF RECORD: KEITH and SCHNARS, P.A.
 6500 N. Andrews Ave., Ft. Lauderdale, FL 33309-3132 (954) 778-1818

STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-24

NOTES: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 600-1.04, F.A.C.



LEGEND	
	EXISTING TREE
BN	BISMARKIA NOBILIS
BS	BURSERIA SIMARUBA
LI	LAGERSTROEMIA INDICA
PE	PTYCHOSPERMA ELEGANS
PD	PHOENIX DACTYLIFERA "MEDJOL"
QV	QUERCUS VIRGINIANA
RE	ROYSTONEA ELATA

DATE	BY	DESCRIPTION	REVISIONS	
			DATE	BY

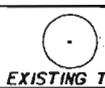
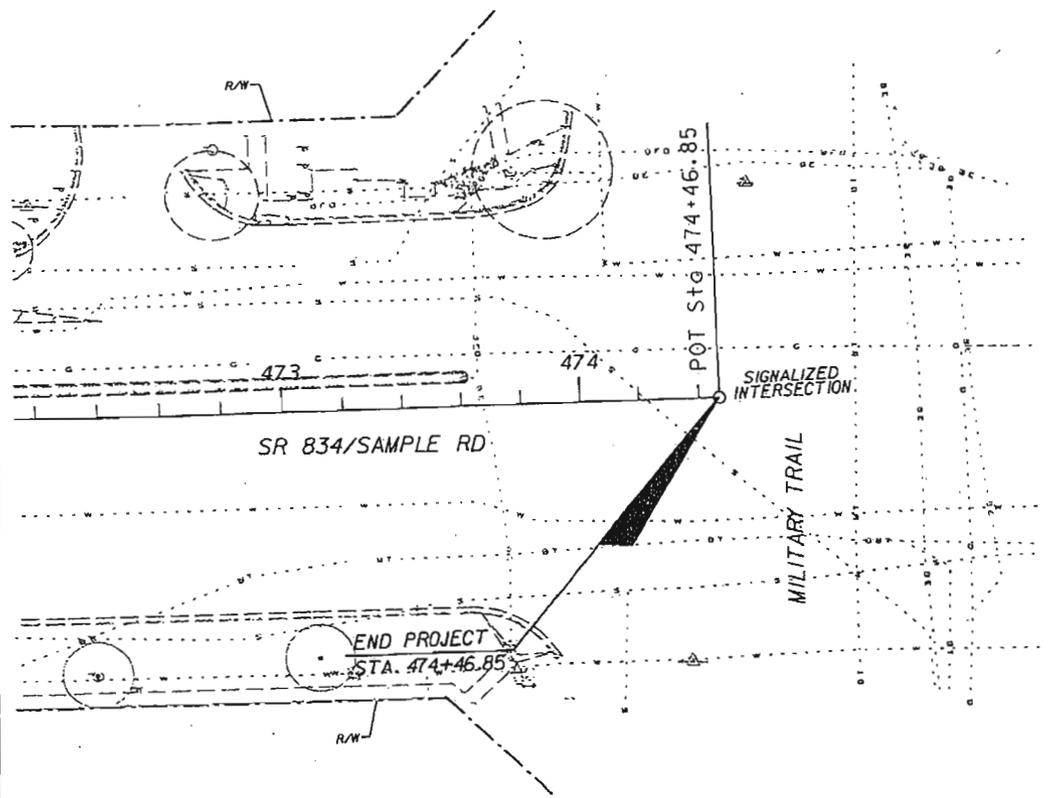
LANDSCAPE ARCHITECT OF RECORD: KEITH and SCHNARS, P.A.
 8000 N. Andrews Ave., Ft. Lauderdale, FL 33309-2132 (954) 770-1016

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN

SHEET NO.
 LD-25

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6A00-1.001, F.A.C.



LEGEND							
BN	BISMARKIA NOBILIS	LI	LAGERSTROEMIA INDICA	PD	PHOENIX DACTYLIFERA "MEDJOL"	RE	ROYSTONEA ELATA
BS	BURSERIA SIMARUBA	PE	PTYCHOSPERMA ELEGANS	QV	QUERCUS VIRGINIANA		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

LANDSCAPE ARCHITECT OF RECORD SINCE 1978, P.L.A. 00011511
 CERTIFICATE OF AUTHORIZATION #1987

KEITH and SCHNARS, P.A.
 6500 N. Andrews Ave., Ft. Lauderdale, FL 33308-2132 (954) 775-1916

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
834	BROWARD	431526-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-26

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 600-11.01, F.A.C.

SHEET NO.
LD-27

IRRIGATION NOTES

STATES OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. 834
COUNTY BROWARD
FINANCIAL PROJECT ID 431526-1-52-01

UNDESIGNED PROJECT OF THE STATE OF FLORIDA
KEITH and SCHNARS, P.A.
600 N. ANDERSON AVE., P. O. BOX 1010, LAUDERHILL, FL 33309-1010 (817) 781-1918

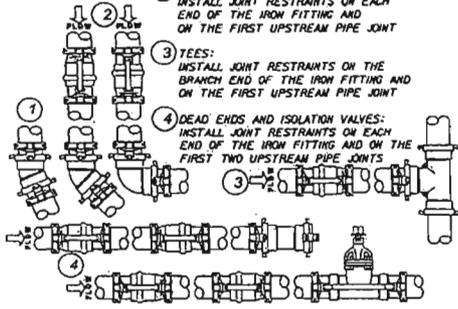
REVISIONS	
DATE	DESCRIPTION

1 22 DEGREE:
INSTALL JOINT RESTRAINTS ON EACH
END OF THE IRON FITTING

2 45 AND 90 DEGREE:
INSTALL JOINT RESTRAINTS ON EACH
END OF THE IRON FITTING AND
ON THE FIRST UPSTREAM PIPE JOINT

3 TEES:
INSTALL JOINT RESTRAINTS ON THE
BRANCH END OF THE IRON FITTING AND
ON THE FIRST UPSTREAM PIPE JOINT

4 DEAD ENDS AND ISOLATION VALVES:
INSTALL JOINT RESTRAINTS ON EACH
END OF THE IRON FITTING AND ON THE
FIRST TWO UPSTREAM PIPE JOINTS



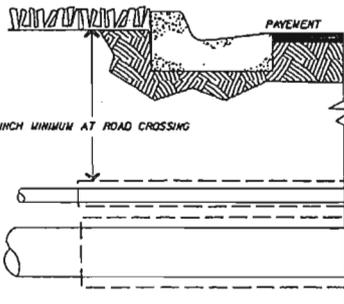
MAINLINE JOINT RESTRAINTS AT DIRECTION CHANGES

1 INSTALL HDPE OR-11 OR PVC SCH 40 SLEEVES UNDER
ROADWAYS AND OTHER IMPERVIOUS AREAS

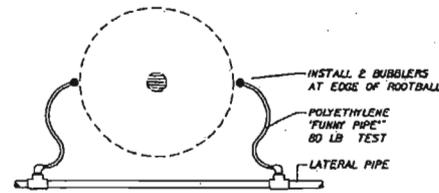
2 DIRECTIONAL BORE ROAD CROSSINGS

3 ROAD TRENCHING REQUIRES WRITTEN PERMISSION

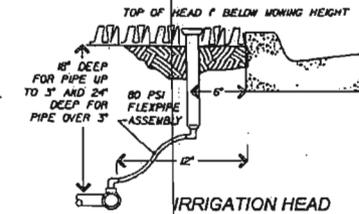
4 ROAD TRENCHING REQUIRES BACKFILLING WITH FLOWABLE FILL



SLEEVING



TREE BUBBLER
PLAN VIEW



IRRIGATION HEAD

NOTE: SUCTION PIPES AND FITTINGS SHALL BE HDPE HEAT FUSED, CHECK VALVE 3" AND LARGER SHALL BE BRINE TYPE, 2" AND SMALLER SHALL BE POPPET STYLE. ALL EXPOSED SUCTION & DISCHARGE PIPE ADJACENT TO THE PUMP SYSTEM SHALL BE GALVANIZED STEEL, BUTTERFLY OR BALL VALVE PROVIDED AT EACH PUMP.

PROVIDE MINIMUM OF 4" CLEARANCE ON ALL SIDES OF PUMP SYSTEMS

* OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"

— PRESSURE CONTROL VALVE

X RAIN BRD EXP-LOWE 12 STATION IRRIGATION CONTROLLER WITH RAIN SENSOR ON 6" POLE

X PRESSURE TANK FOR PRESSURE DEMAND SYSTEMS

SAFETY FEATURES
PRESSURE DEMAND
TRANSIENT SURGE
LOSS OF PRESSURE
PUMP OVERHEAT

LOCKABLE HANDLE
48"x48" ALLUMINUM SKID
CONTROL PANEL
ASSEMBLY SHALL LISTED
MAINTAIN 4" CLEARANCE
PRESSURE TANK
FLOW METER
IRRIGATION MAIN
DISCHARGE ISOLATION VALVE
RAIN SENSOR ON 6" POLE
RAIN BRD EXP-LOWE IRRIGATION
CONTROLLER

FIBERGLASS REINFORCED ENCLOSURE
48" x 48" x 4" CLEAR SKID SECTION
FORESET GREEN GOLDEN STOPPED
FLUSH
VARIABLE FREQUENCY DRIVE
1" THICK 50 LBS x 50 LBS
REINFORCED CONCRETE PAD
CENTRIFUGAL PUMP 10 HP
(HIGH EFFICIENCY TFC MOTOR)
PRESSURE TRANSDUCER
GALV. STEEL DISCH. HOR.
SUCTION LINE
EDGE OF WATER

3" HDPE HEAT FUSED PIPE
2" IRVING CHECK VALVE

216 STAINLESS STEEL SCREEN
ASSEMBLY

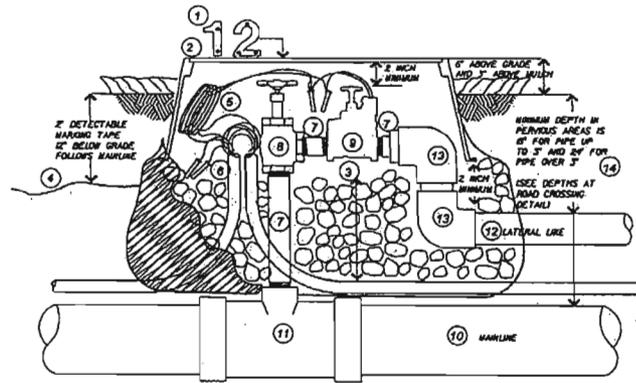
PLAN VIEW NTS

ELECTRIC SERVICE TO BE, IN ORDER OF PREFERENCE:
480V 3-PHASE, 230V CLOSED-DELTA 3-PHASE, 208 VTE, 3-PHASE,
230 1-PHASE, 208V 1-PHASE, 230 OPEN-DELTA 3-PHASE

PUMP PERFORMANCE
100 GPM @ 173 TYP, 60 PSI DISCHARGE PRESSURE

HOOPER PUMPING MODEL: HCF-10P0V-230/3-E-12L.M.Z
Pompano Beach, Florida, Tel: 954-971-7350

PUMP SYSTEM DETAIL



VALVE INSTALLATION

1 ALUMINUM VALVE IDENTIFICATION NUMBER, SCREWED IN PLACE

2 VALVE BOX

3 VALVE SHARP: 12 INCHES DEEP FILLED WITH 2 INCH
GRAVEL AND WRAPPED IN FILTER FABRIC

4 DETECTABLE MARKING TAPE:
ABOVE MAINLINE AND 12" BELOW GRADE

5 CONTROL WIRE:
SOLID COPPER, TYPE UF-43 THIN/THIN WITH A 24" SERVICE COIL
AND 24"-4" WATERPROOF WIRE CONNECTORS
MAKE ALL CONTROL WIRES ACCESSIBLE AT EVERY VALVE BOX
INSTALL A DIFFERENT COLOR FOR EACH VALVE (DO NOT USE GREEN)
INSTALL WHITE COLOR AS THIS COMMON
INSTALL EXTRA BLUE COLORED WIRES WHERE NOTED ON PLANS

6 CONTROL WIRE CONDUIT: GREY PVC USING LONG RAIN
SLEEVES COMING INTO EACH VALVE BOX

7 SCHEDULE 80 PVC THREADED RIPPLES
INSTALL NO MALE ADAPTERS

8 MANUAL GATE VALVE:
RIGHT ANGLE VALVE, MATCH ELECTRIC VALVE SIZE

9 ELECTRIC CONTROL VALVE:

10 MAINLINE PIPE:
PVC, INSTALL LABELS FACING UP

11 MAINLINE PIPE/FITTINGS: PVC SCHEDULE 40,
INSTALL DUCTILE IRON FITTINGS WITH
JOINT RESTRAINTS AT DIRECTION CHANGES

12 LATERAL LINE PIPE:
PVC, INSTALL LABELS FACING UP

13 LATERAL LINE PIPE/FITTINGS
PVC, SCHEDULE 40,

14 PIPE DEPTH REQUIREMENTS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

LANDSCAPE ARCHITECT OF RECORD, LICENSE # 16860 P.L.A. 00001419
CERTIFICATE OF AUTHORIZATION #1387

KEITH and SCHNARS, P.A.
6500 N. Andrews Ave., Ft. Lauderdale, FL 33306-2132 (954) 778-1918

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

IRRIGATION DETAILS

SHEET
NO.

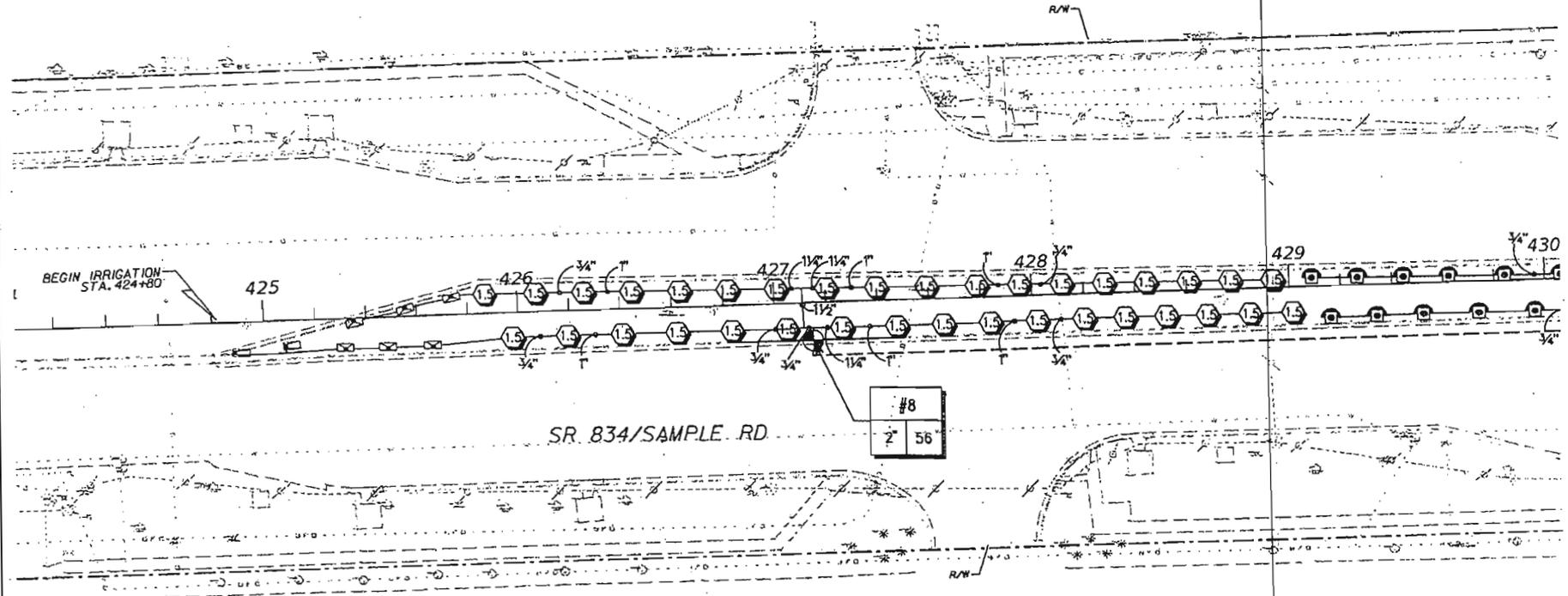
LD-28

NOTE: THE ORIGINAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6000-10.01, F.A.C.

ITEM	SPECIFICATION	UNIT	QUANTITY
ELECTRIC POWER PUMP	FRONT END WITH SERVICE BENT	EA	1
PUMPS	HOVER PUMP STATION MODEL 1000 1/2 HP 1/2" NPT 1/2" NPT	EA	1
ZONE VALVES	RAINBIRD ZEPHYRUS	EA	100
PIPES	SCHEDULE 40 1/2" IRON PIPE	EA	100
RIGHT ANGLE BALL VALVES	RAINBIRD 1/2" NPT	EA	100
AREA VALVE RELEASE VALVES	HERMATHY ARCH COMBINATION AIR AND VACUUM RELEASE	EA	2
VALVE BOXES	POLYMER CONCRETE 18" X 24" X 18" HIGH DEEP	EA	12
VALVE BOX IDENTIFICATION	2" ALUMINUM NUMBERS	EA	24
ISOLATION VALVES	4" NPT 90° PRESSURE WIPER INTERNAL CONTROL	EA	2
MANLINE	4" NPT SCHEDULE 40	LF	4,467
MANLINE MARKING TAPE	RED REFLECTIVE MARKING TAPE OVER MANLINE 2" BELOW GRADE	LF	4,467
WATER MAINLINE	PVC SCHEDULE 40 1/2" IRON PIPE WITH 1/2" NPT END	LF	2,018.5
SLEEVES	HDPE 1/2" NPT	EA	540
DIRECTIONAL BOLLING	SLEEVES 1/2" NPT	EA	500
CONTROL WIRE	1/2" GALVANNEUM WIRE WITH 1/2" NPT END WITH DECK CONNECTORS	LF	16,348
CONTROL WIRE CONDUIT	1/2" GALVANNEUM CONDUIT FOR DECK WARE (DOWNS) (SCHEDULE 40)	LF	16,348
IRIGATION PIPES	RAINBIRD 1/2" NPT 1/2" NPT	EA	100
IRIGATION PIPES	RAINBIRD 1/2" NPT 1/2" NPT NOZZLES	EA	100
IRIGATION PIPES	RAINBIRD 1/2" NPT WITH 1/2" NPT NOZZLES	EA	100
BUBBLERS	RAINBIRD 1/2" NPT 1/2" NPT COMPENSATING	EA	1
ASPH/ROCK	BELTON VALVE BOXES PER DETAIL	EA	2
ELDER FABRIC	BELTON VALVE BOXES PER DETAIL	EA	2

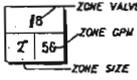
REVISIONS DATE BY DATE BY		STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID 834 BROWARD 43126-1-52-01		SHEET NO. LD-30
DESCRIPTION		SUMMARY OF IRRIGATION QUANTITIES		6/1/14

LICENSE NUMBER OF KEITH AND SCHNARS, P.A.
 KEITH and SCHNARS, P.A.
 600 N. ANDERSON AVE., P.O. BOX 1000, FT. LAUDERDALE, FL 33301-1000



IRRIGATION LEGEND

- MAIN LINE PIPE - 2.5' SCHEDULE 40 PVC (18" DEEP MINIMUM)
- 1.5" SEAMLESS HOPE DRIP 'RED STRIPE' CONDUIT
- LATERAL LINE PIPE - SCHEDULE 40 PVC (18" DEEP MINIMUM) SIZE AS SHOWN
- SLEEVES - SCHEDULE 40 PVC, 1.5' DEEP MINIMUM UNDER ROADWAYS! OPEN CUT INSTALLATION, PRIOR TO ROADWAY BASE PREPARATION



ZONE VALVE NUMBER
ZONE GPM
ZONE SIZE



- ⊙ RAIN-3500T-1.5-179-91-91-540
- ⊙ RAIN-R17-24T-2-1724-H-180-91-5040
- ⊙ RAIN-1300-18CST-4X30
- ⊙ RAIN-1800-18CST-4X15
- ⊙ RAIN-9SST-9XB

DATE		BY	DESCRIPTION	REVISIONS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

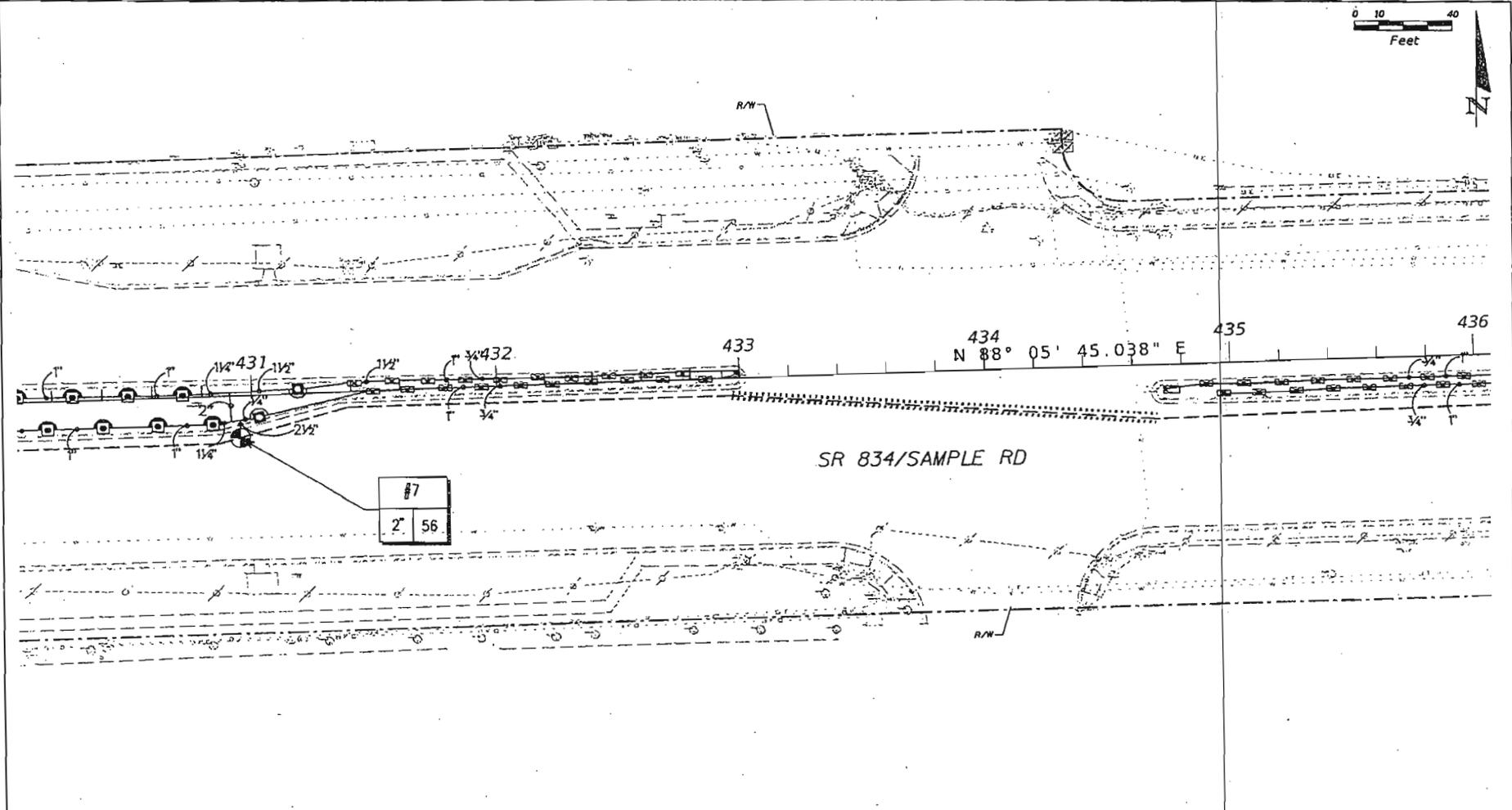
LANDSCAPE ARCHITECT OF RECORD: DAVID E. KELLY, P.E., R.L.A. MEMBER IN CHARGE OF AUTHORIZATION #1221

KEITH and SCHNARS, P.A.
6500 N. Andrews Ave., Ft. Lauderdale, FL 33309-2132 (954) 776-1919

STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

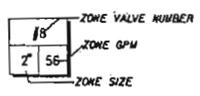
IRRIGATION PLAN		SHEET NO.
		LD-31

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND SEALED UNDER RULE 60D-14.04, F.A.C.



IRRIGATION LEGEND

- MAIN LINE PIPE - 2.5' SCHEDULE 40 PVC 18" DEEP MINIMUM
- 1.5" SEAMLESS HDPE DRP "RED STRIPE" CONDUIT
- LATERAL LINE PIPE - SCHEDULE 40 PVC 18" DEEP MINIMUM SIZE AS SHOWN
- SLEEVES - SCHEDULE 40 PVC 1.56" DEEP MINIMUM UNDER ROADWAYS! OPEN CUT INSTALLATION, PRIOR TO ROADWAY BASE PREPARATION



- ⊙ ZONE VALVE/MASTER VALVE
- ⊙ POC
- ⊙ PUMP STATION

- ⊙ RAIN-3500T-1.5-179-91-91-540
- ⊙ RAIN-R17-24T-2-1724-N-180-91-5040
- ⊙ RAIN-1300-15CST-4X30
- ⊙ RAIN-1800-15CST-4X15
- ⊙ RAIN-9SST-9X18

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

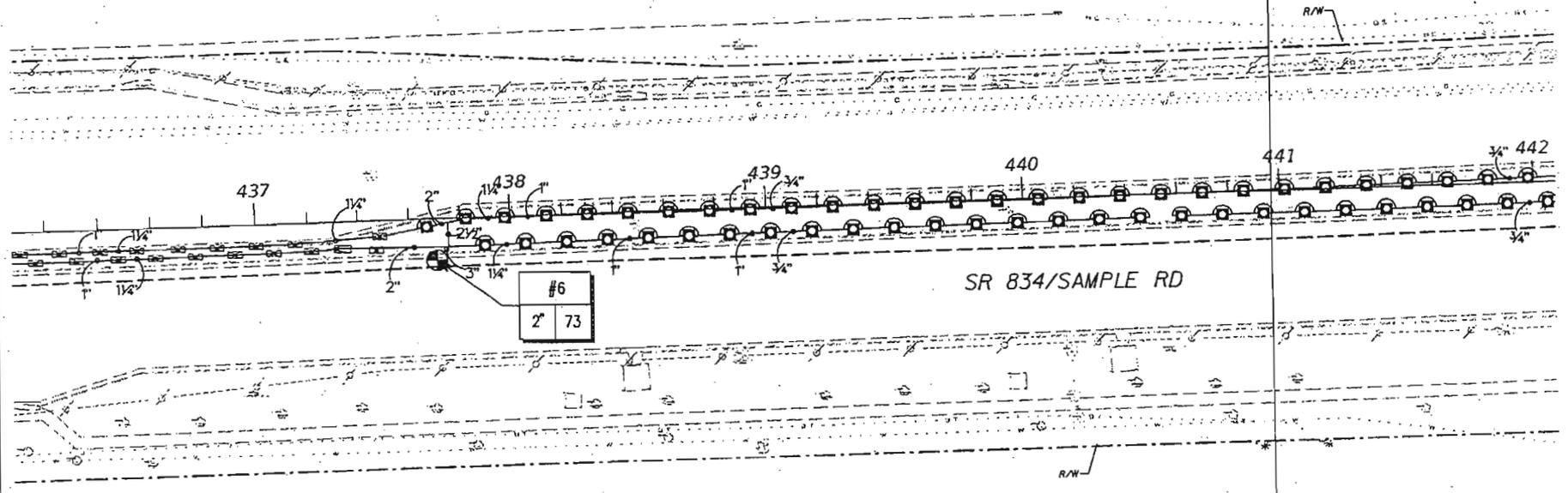
LANDSCAPE ARCHITECT OF RECORD (P.L.C.) (P.L.A. 82094478)
 CERTIFICATE OF AUTHORIZATION #14337
KEITH and SCHNARS, P.A.
 6309 N. Andrews Ave., Ft. Lauderdale, FL 33309-2128 (954) 778-1910

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

IRRIGATION PLAN

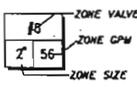
SHEET NO.
LD-32

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER TITLE 600-HIGH, F.A.C.



IRRIGATION LEGEND

- MAIN LINE PIPE - 2.5' SCHEDULE 40 PVC (18" DEEP MINIMUM)
- 1.5" SEAMLESS HOPE DRIP 'RED STRIPE' CONDUIT
- LATERAL LINE PIPE - SCHEDULE 40 PVC (18" DEEP MINIMUM) SIZE AS SHOWN
- SLEEVES - SCHEDULE 40 PVC (36" DEEP MINIMUM UNDER ROADWAYS) OPEN CUT INSTALLATION, PRIOR TO ROADWAY BASE PREPARATION



- ⊙ RAIN-3500T-1.5-179-91-91-540
- ⊙ RAIN-R17-24T-2-1724-H-180-91-S040
- ⊙ RAIN-1300-15CST-4X30
- ⊙ RAIN-1800-15EST-4X15
- ⊙ RAIN-9SST-9X18

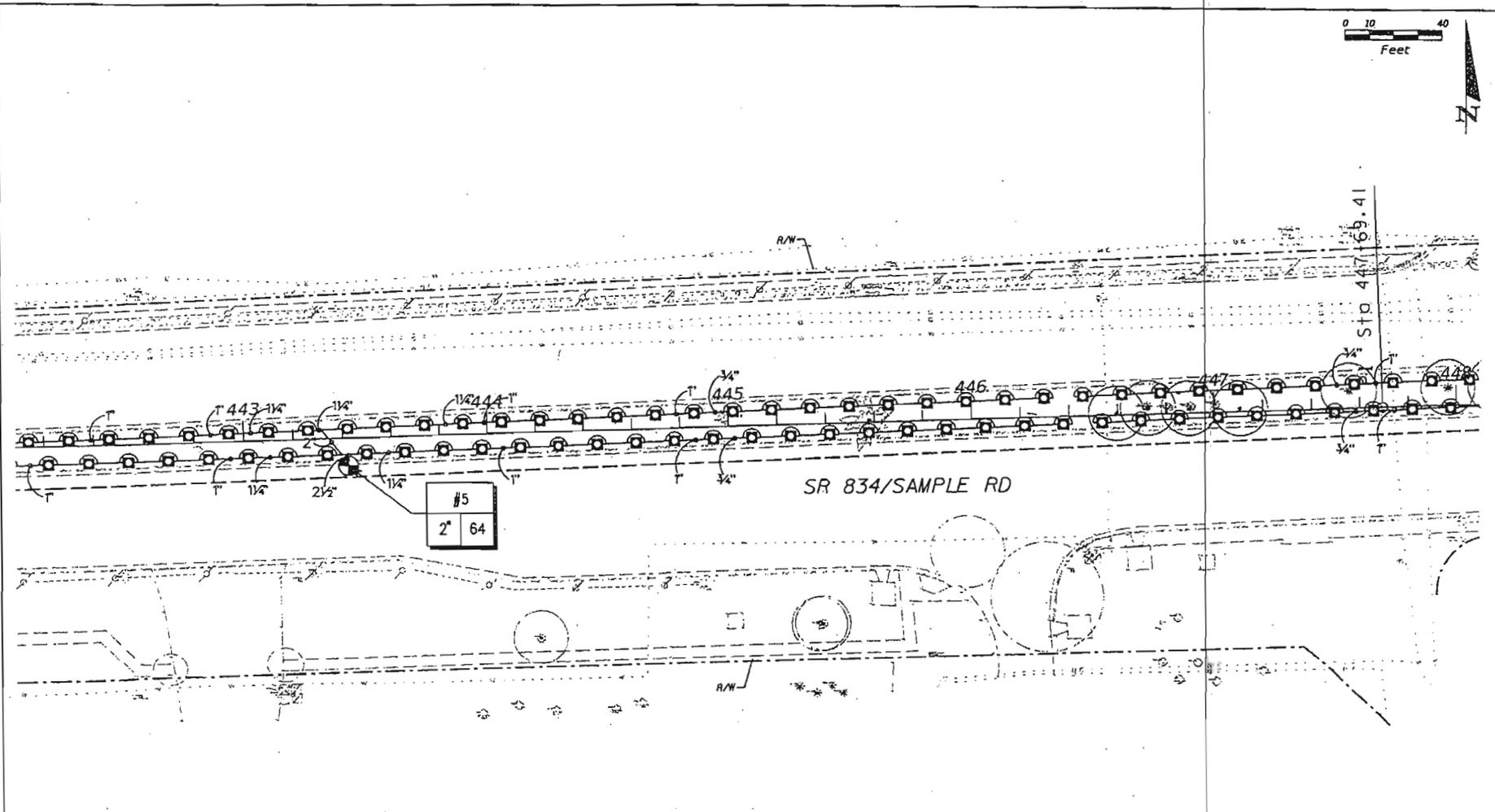
REVISIONS			
DATE	BY	DESCRIPTION	DATE

LANDSCAPE ARCHITECT OF RECORD: MICHAEL E. FIELD, P.L.L.C. DESIGNER
 CERTIFICATE OF AUTHORIZATION #13317
KEITH and SCHNARS, P.A.
 8000 N. Andrews Ave., Ft. Lauderdale, FL 33309-2132 (954) 778-1918

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

IRRIGATION PLAN	SHEET NO. LD-33
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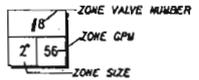
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6000-HIGH.F.A.C.



#5
2" 64

IRRIGATION LEGEND

- MAIN LINE PIPE - 2.5' SCHEDULE 40 PVC (8" DEEP MINIMUM)
- 1.5" SEAMLESS HDPE DRIP 'RED STRIPE' CONDUIT
- LATERAL LINE PIPE - SCHEDULE 40 PVC (8" DEEP MINIMUM) SIZE AS SHOWN
- SLEEVES - SCHEDULE 40 PVC (3" DEEP MINIMUM UNDER ROADWAYS) OPEN CUT INSTALLATION, PRIOR TO ROADWAY BASE PREPARATION



- ZONE VALVE NUMBER
- ZONE VALVE/MASTER VALVE
- ZONE GPM
- ZONE SIZE
- ⊠ POC
- ⊠ PUMP STATION
- ⊠ RAIN-3500T-1.5-179-91-91-540
- ⊠ RAIN-RIT-24T-2-1724-H-180-91-S040
- ⊠ RAIN-1300-15GST-4X30
- ⊠ RAIN-1800-15EST-4X15
- ⊠ RAIN-9SST-9X8

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

LANDSCAPE ARCHITECT OF RECORD, BRIDGE & PAVEMENT, INC. (L.A. 0001478)
 CERTIFICATE OF AUTHORIZATION #1527

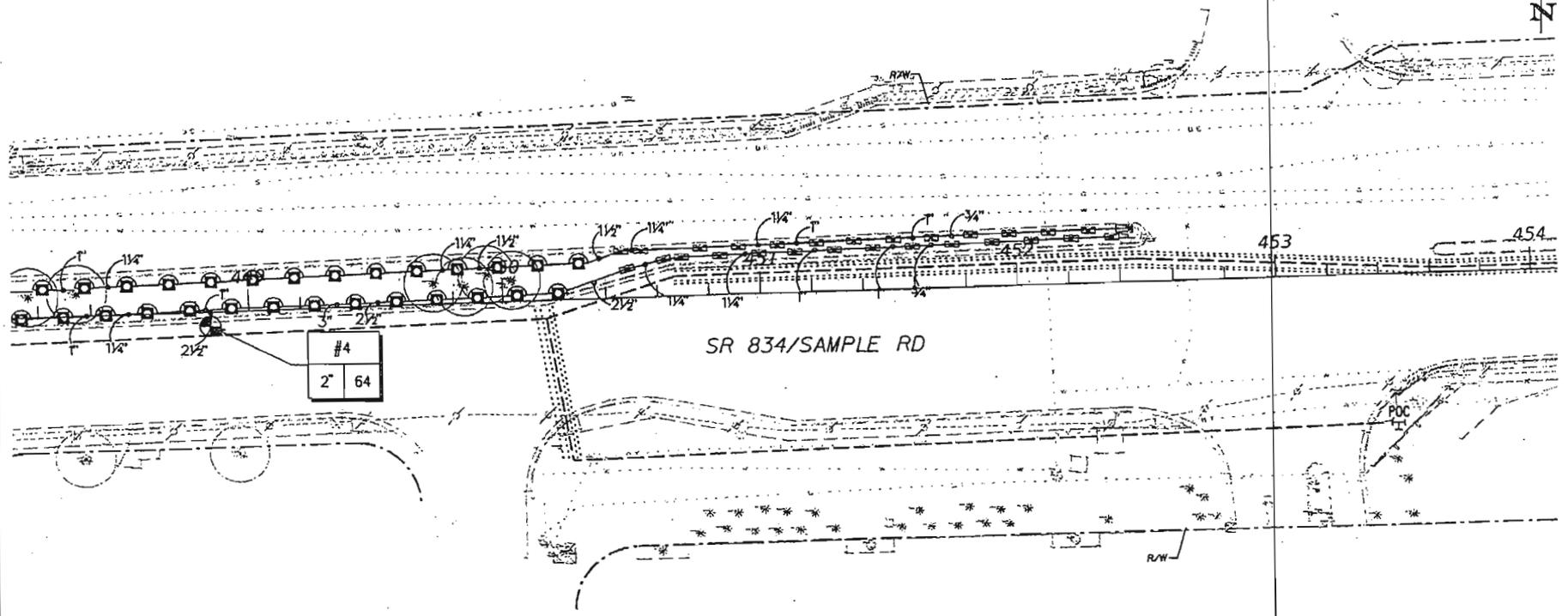
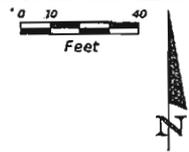
KEITH and SCHNARS, P.A.
 6500 N. Andrews Ave., Ft. Lauderdale, FL 33308-2132 (954)776-1818

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

IRRIGATION PLAN

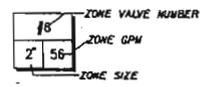
SHEET NO.
LD-34

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 600-10.01, F.A.C.



IRRIGATION LEGEND

- MAIN LINE PIPE - 2.5' SCHEDULE 40 PVC (18" DEEP MINIMUM)
- 1.5" SEAMLESS HDPE DRP 'RED STRIPE' CONDUIT
- LATERAL LINE PIPE - SCHEDULE 40 PVC (18" DEEP MINIMUM) SIZE AS SHOWN
- SLEEVES - SCHEDULE 40 PVC (36" DEEP MINIMUM UNDER ROADWAYS) OPEN CUT INSTALLATION, PRIOR TO ROADWAY BASE PREPARATION



- ⊕ RAIN-3500T-1.5-179-91-91-540
- ⊕ RAIN-RIT-24T-2-1124-H-180-91-5040
- ⊕ RAIN-1300-15CST-4X30
- ⊕ RAIN-1800-15CST-4X15
- ⊕ RAIN-95ST-9X18

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

LANDSCAPE ARCHITECT OF RECORD, BRUCE R. FORD, P.L.A. 00011716
 CERTIFICATE OF AUTHORIZATION #13317

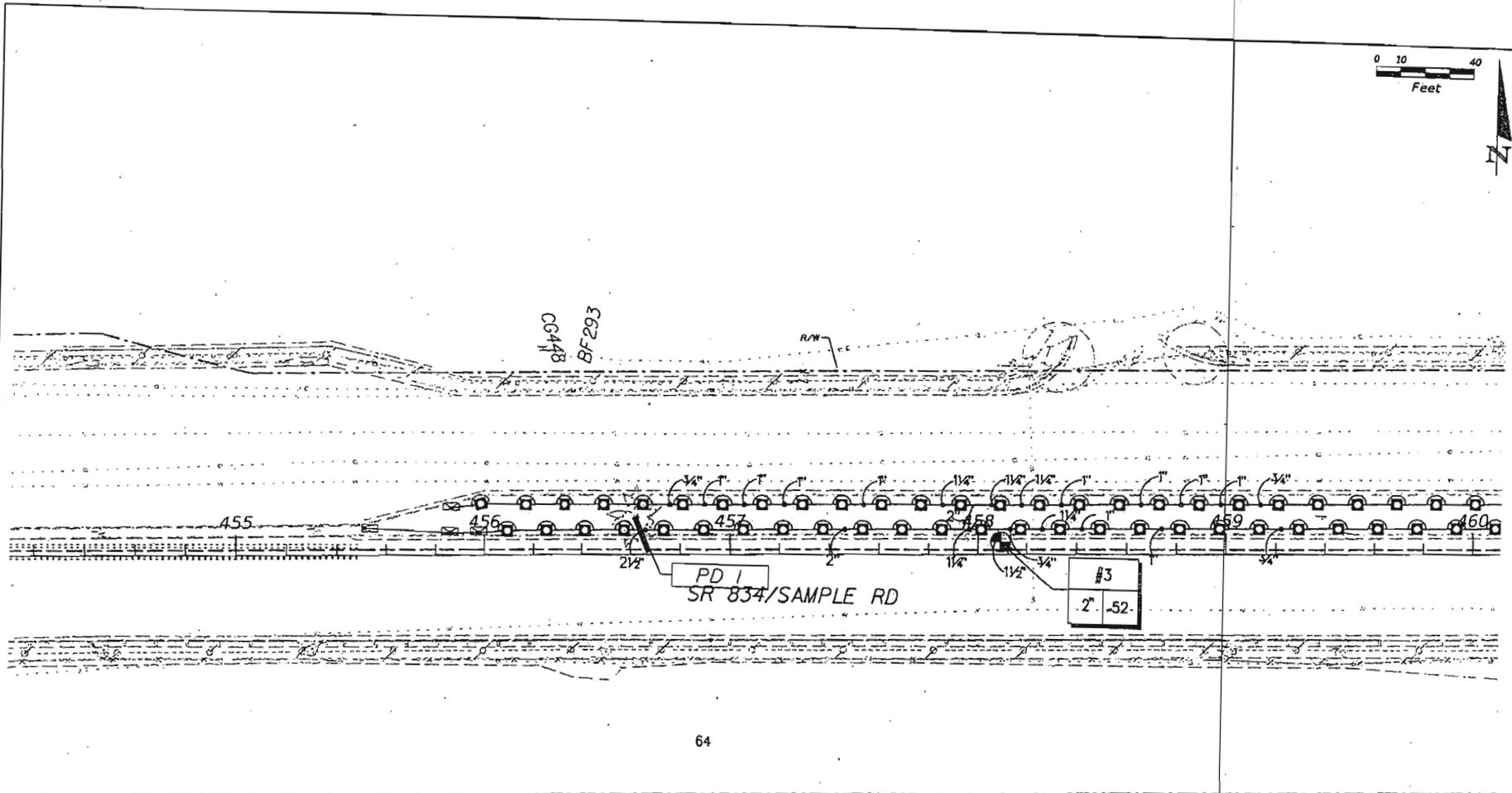
KEITH and SCHNARS, P.A.
 6300 N. Andrews Ave., Ft. Lauderdale, FL 33309-2132 (954) 778-1818

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

IRRIGATION PLAN

SHEET NO.
LD-35

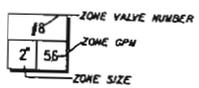
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6800-11.014, F.A.C.



64

IRRIGATION LEGEND

- MAIN LINE PIPE - 2.5' SCHEDULE 40 PVC (18" DEEP MINIMUM)
- 1.5" SEAMLESS HDPE DWT 'RED STRIPE' CONDUIT
- LATERAL LINE PIPE - SCHEDULE 40 PVC (18" DEEP MINIMUM)
- SIZE AS SHOWN
- SLEEVES - SCHEDULE 40 PVC, 136" DEEP MINIMUM UNDER ROADWAY(S) OPEN CUT INSTALLATION, PRIOR TO ROADWAY BASE PREPARATION



- ⊕ ZONE VALVE/MASTER VALVE
- ⊕ RAIN-3500T-1.5-179-91-91-540
- ⊕ RAIN-R17-24T-2-1724-H-180-91-5040
- ⊕ RAIN-1300-15CST-4X30
- ⊕ RAIN-800-15EST-4X15
- ⊕ RAIN-95ST-9X18
- ⊕ POC PUMP STATION

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

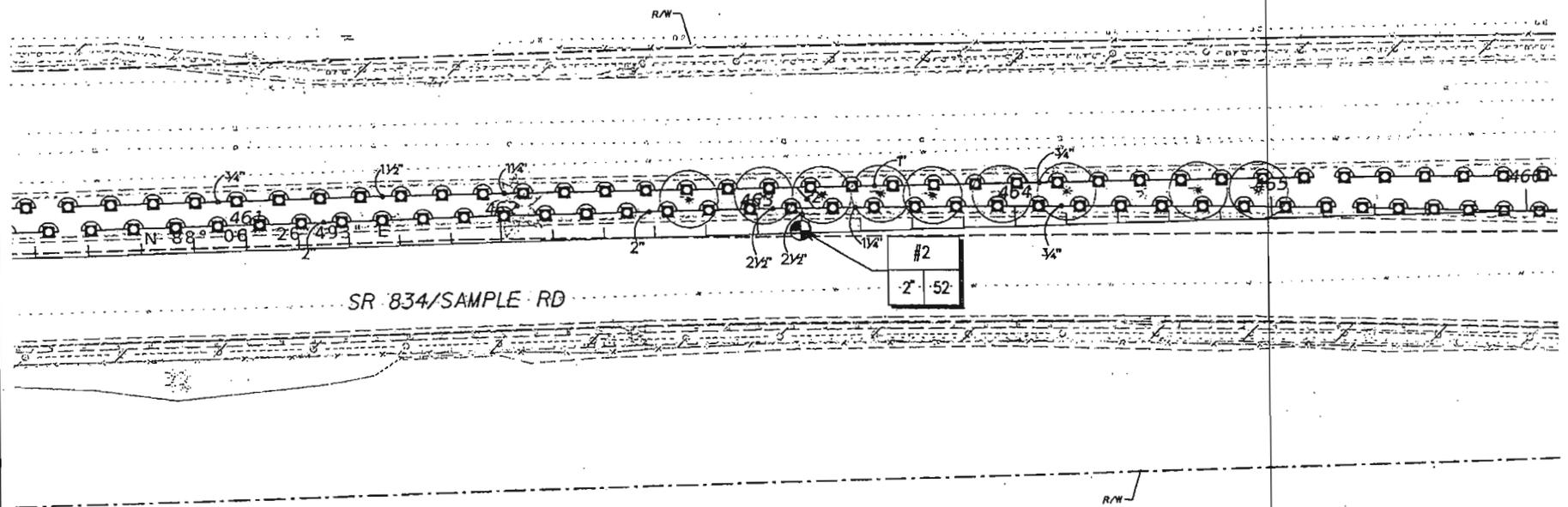
LANDSCAPE ARCHITECT OF RECORD SINCE 11/1/2010, REG. NO. 40001773
 CERTIFICATE OF AUTHORIZATION #1327
KEITH and SCHNARS, P.A.
 8500 N. Andrews Ave., Ft. Lauderdale, FL 33308-2133 (954)770-1818

STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

IRRIGATION PLAN

SHEET NO.
LD-36

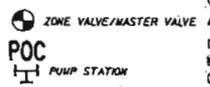
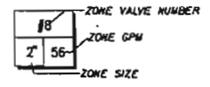
NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6800-1.001, F.A.C.



SR 834/SAMPLE RD

IRRIGATION LEGEND

- MAIN LINE PIPE - 2.5' SCHEDULE 40 PVC (18" DEEP MINIMUM)
- 1.5" SEAMLESS HOPE DRIP 'RED STRIPE' CONDUIT
- LATERAL LINE PIPE - SCHEDULE 40 PVC (18" DEEP MINIMUM) SIZE AS SHOWN
- SLEEVES - SCHEDULE 40 PVC (18" DEEP MINIMUM UNDER ROADWAYS) OPEN CUT INSTALLATION, PRIOR TO ROADWAY BASE PREPARATION



- ⊕ RAIN-3500T-1.5-179-91-91-S40
- ⊕ RAIN-R17-24T-2-1724-H-180-91-S040
- ⊕ RAIN-1300-15CST-4X30
- ⊕ RAIN-1800-15EST-4X15
- ⊕ RAIN-95ST-9X18

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

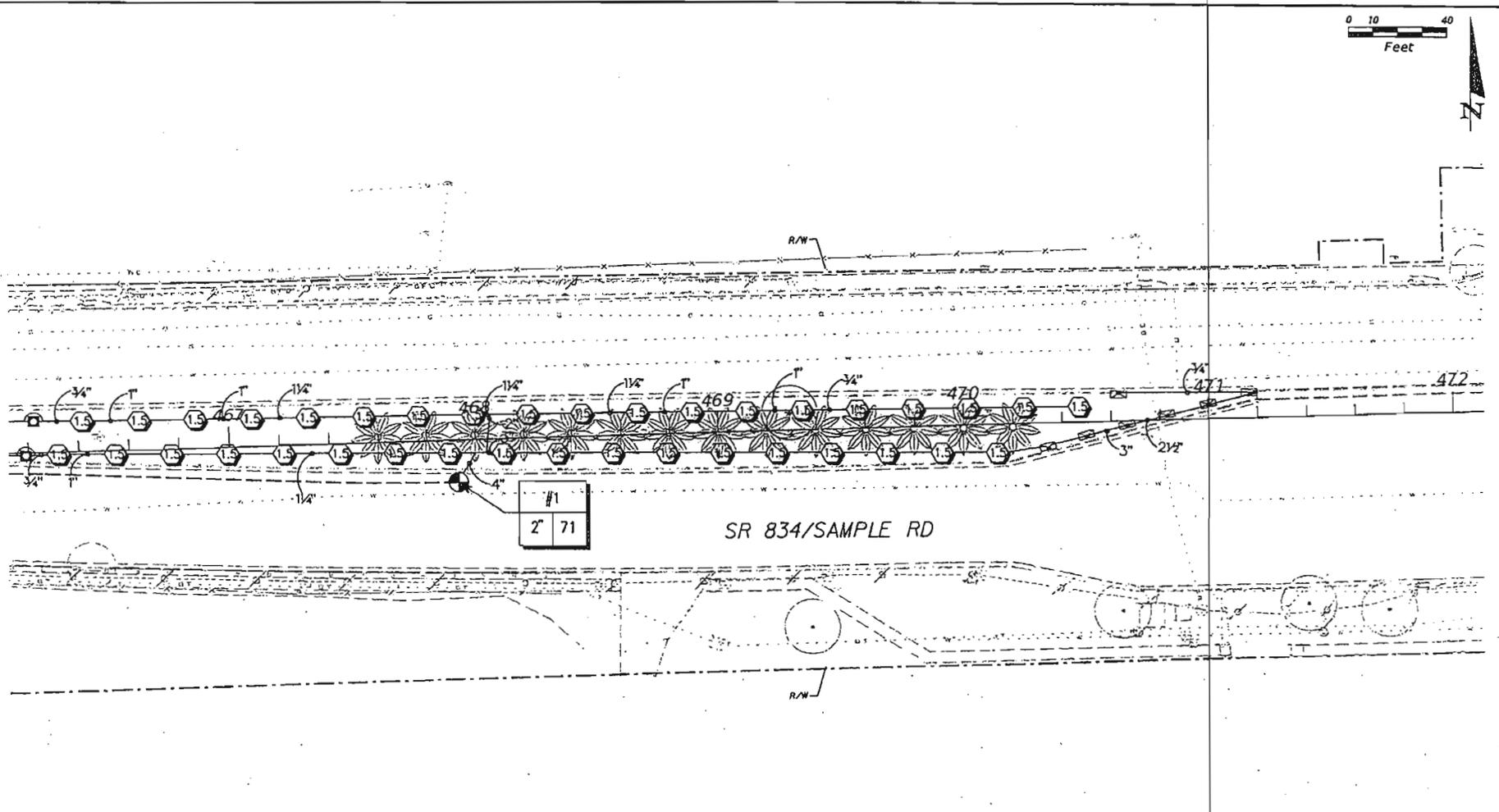
LANDSCAPE ARCHITECT OF RECORD (SCALE 1/8"=1'-0")
 CERTIFICATE OF AUTHORIZATION #1281
KEITH and SCHNARS, P.A.
 6500 N. Andrews Ave., Ft. Lauderdale, FL 33309-2132 (954)779-1918

STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

IRRIGATION PLAN

SHEET NO.
LD-37

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND SEALED UNDER RULE 600-10.01, F.A.C.



IRRIGATION LEGEND

- MAIN LINE PIPE - 2.5' SCHEDULE 40 PVC (18" DEEP MINIMUM)
- 1.5" SEAMLESS HDPE DRIP 'RED STRIPE' CONDUIT
- LATERAL LINE PIPE - SCHEDULE 40 PVC (18" DEEP MINIMUM) SIZE AS SHOWN
- SLEEVES - SCHEDULE 40 PVC (18" DEEP MINIMUM UNDER ROADWAYS) OPEN CUT INSTALLATION, PRIOR TO ROADWAY BASE PREPARATION
- ZONE VALVE NUMBER
- ZONE GPM
- ZONE SIZE
- ☉ ZONE VALVE/MASTER VALVE
- ☉ POC PUMP STATION
- ☉ RAIN-3500T-1.5-179-91-91-540
- ☉ RAIN-RIT-24T-2-1724-H-180-91-5040
- ☉ RAIN-1300-ISCST-4X30
- ☉ RAIN-1800-ISEST-4X15
- ☉ RAIN-95ST-9X18

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

LANDSCAPE ARCHITECT OF RECORD BRUCE A. FLECK, P.L.A. (0001471)
 CERTIFICATE OF AUTHORIZATION (01321)
KEITH and SCHNARS, P.A.
 6500 N. Andrews Ave., Ft. Lauderdale, FL 33309-2732 (954)776-1818

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	431526-1-52-01

IRRIGATION PLAN

SHEET NO.
LD-38

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6000-1.004, F.A.C.

TRAFFIC CONTROL GENERAL NOTES:

GENERAL:

1. SINGLE LANE CLOSURES:
LANE CLOSURE SHALL OCCUR ONLY DURING NON-PEAK HOURS ON NON-EVENT DAYS/NIGHTS/WEEKENDS. NON-PEAK HOURS ARE:
9:00 AM TO 3:30 PM - WEEKDAYS.
2. REGULATORY SPEED ESTABLISHED WITHIN WORK ZONE TRAVEL WAY SHALL BE 45 M.P.H., THE SAME AS THE POSTED SPEED, AT ALL TIMES.
3. THE CONTRACTOR SHALL INSTALL ONE PROJECT INFORMATION SIGN PER INDEX 600 APPROXIMATELY 500' BEFORE THE PROJECT BEGIN LIMITS PRIOR TO CONSTRUCTION.

CHANGEABLE (PORTABLE) MESSAGE SIGN MESSAGES:

PCMS TO BE PLACED ON SR-834:

0-14 DAYS PRIOR
TO CONSTRUCTION

CONST
TO BEGIN
XX/XX/XX

MESSAGE

PCMS 1

DURING
LANE CLOSURES

LANE
CLOSED
AHEAD

MESSAGE 1

PCMS 2

EXPECT
DELAYS

MESSAGE 2

ADVANCE CONSTRUCTION NOTICE:

THE CONTRACTOR SHALL FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) AT THE BEGINNING OF THIS PROJECT. MESSAGES FOR THE PCMS SHALL BE AS INDICATED ON THIS PLAN OR AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE IN PLACE TWO (2) WEEKS BEFORE START OF ANY WORK ITEMS AFFECTING THE EXISTING VEHICULAR AND PEDESTRIAN TRAFFIC SR-834.

REVISIONS				ENGINEER OF RECORD: C. BRENN WILSON, P.E. #13447 KEITH and SCHNARS, P.A. ENGINEERS, PLANNERS, SURVEYORS 6508 NORTH ANDREWS AVENUE FORT LAUDERDALE, FLORIDA 33309-2132 1954716-1418 CERTIFICATE OF AUTHORIZATION NO. 1337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TRAFFIC CONTROL PLAN	SHEET NO. LD-39
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					834	BROWARD	431526-1-52-01		

Sharon

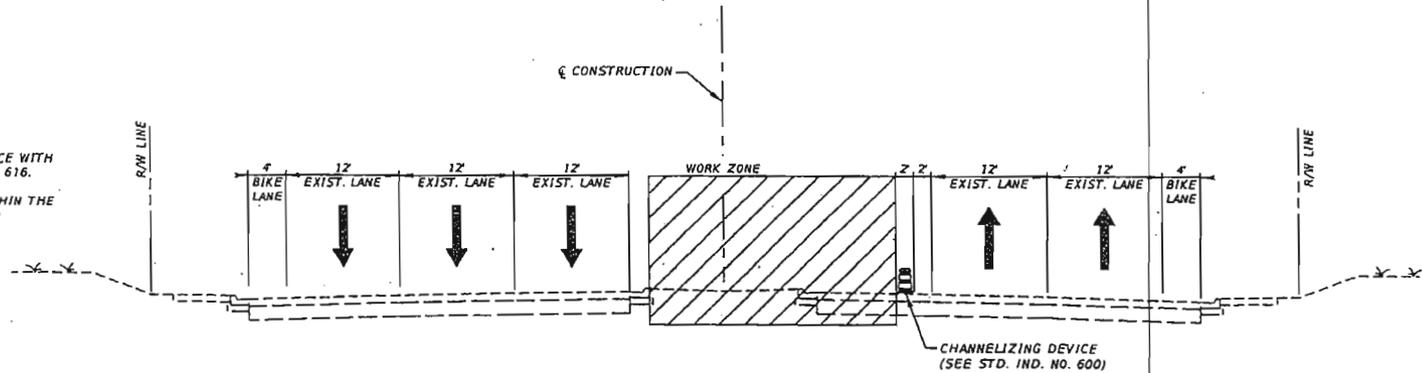
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PHASE I:

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



TYPICAL SECTION - PHASE I
 SR 834 (SAMPLE ROAD)
 M.P. 5.03 TO M.P. 7.116

REVISIONS		ENGINEER OF RECORD: C. BRIAN WILSON, P.E. #1148		STATE OF FLORIDA		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEPARTMENT OF TRANSPORTATION		
				ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
				834	BROWARD	431526-1-52-01
KEITH and SCHNARS, P.A. ENGINEERS, PLANNERS, SURVEYORS 8500 NORTH ANDREWS AVENUE FORT LAUDERDALE, FLORIDA 33309-2132 (954)716-1600 CERTIFICATE OF AUTHORIZATION NO. 1337				TRAFFIC CONTROL PLAN		LD-40

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1.0 SITE DESCRIPTION

1. A. NATURE OF CONSTRUCTION ACTIVITY
THIS PROJECT CONSISTS OF THE INSTALLATION OF LANDSCAPING ITEMS IN SELECTED LOCATIONS ALONG SR 5 FROM MM 90.8 TO MM 97 IN MONROE COUNTY, A DISTANCE OF 6.004 MILES.

1. B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES
1) CLEARING AND GRUBBING
2) INSTALLATION OF LANDSCAPING ITEMS

1. C. AREA ESTIMATES
TOTAL SITE AREA: 5,817,811 SF (129 ACRES)
TOTAL AREA DISTURBED: 163,310 SF (3.75 ACRES)

1. D. RUNOFF COEFFICIENTS
THE LANDSCAPING WORK WILL NOT CHANGE THE RUNOFF COEFFICIENTS BEFORE, DURING OR AFTER; THERE ARE NO ADDITIONAL IMPERVIOUS AREAS BEING ADDED. THE RUNOFF COEFFICIENT IN THE DISTURBED AREAS IS ANTICIPATED TO BE 0.3.

SOILS DATA
URBAN LAND - THIS SOIL IS LOCATED IN AREAS WHERE MORE THAN 85 PERCENT OF THE SURFACE IS COVERED BY STREETS, SIDEWALKS, AND OTHER STRUCTURES. THE NATURAL SOIL CANNOT BE OBSERVED. THE SOILS IN OPEN AREAS, MAINLY VEGETATED HIGHWAY BORDER AREAS HAVE BEEN ALTERED BY LAND GRADING AND SHAPING; AREAS OF THESE SOILS ARE SO SMALL THAT MAPPING THEM SEPARATELY IS IMPRACTICAL. NO CAPABILITY CLASSIFICATION IS ASSIGNED.

1. E. SITE MAP
THE CONSTRUCTION PLANS SERVE AS THE SITE MAP. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW AND ON THE KEY MAP:
DRAINAGE PATTERNS: THE ATTACHED LANDSCAPE PLAN SHEETS SHOW THE INLETS THAT RECEIVE THE STORMWATER FROM THE DISTURBED AREAS, ALL RUNOFF FROM THE PROJECT SITE IS DIRECTED TOWARD INLETS WITHIN THE RIGHT OF WAY FOR TREATMENT WITHIN THE EXISTING SYSTEM. (SEE LANDSCAPE PLANS). APPROXIMATE SLOPES: VARY; HOWEVER, THE EXISTING SLOPES ARE TO REMAIN THE SAME.
AREAS OF SOIL DISTURBANCE: THE AREAS OF SOIL DISTURBANCE ARE SHOWN ON THE LANDSCAPE PLANS.
AREAS NOT TO BE DISTURBED: AREAS OUTSIDE OF THE PROPOSED LANDSCAPED AREAS WILL NOT BE DISTURBED DURING CONSTRUCTION.
LOCATIONS OF TEMPORARY CONTROLS: AT EXISTING INLETS.
LOCATIONS OF PERMANENT CONTROLS: EXISTING CONTROLS REMAIN. INLETS, SWALES, BERMS, WALLS, CURB AND GUTTER, ETC.
AREAS TO BE STABILIZED: ALL DISTURBED AREAS WILL BE PERMANENTLY STABILIZED WITH LANDSCAPING ITEMS.

SURFACE WATERS: N/A
DISCHARGE POINTS TO SURFACE WATERS: VIA SWALES, OUTFALLS AND OVERFLOW.
WETLAND AREAS: THERE ARE NO WETLANDS.

1. F. RECEIVING WATERS: N/A

OUTFALL INFORMATION
LOCATION:
LATITUDE: N/A
LONGITUDE: N/A
RECEIVING WATER NAME: N/A
DRAINAGE AREA: UNKNOWN; HOWEVER, NO CHANGES WILL RESULT FROM THIS PROJECT.

2.0 CONTROLS

2. A. EROSION AND SEDIMENT CONTROLS
IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S CONSTRUCTION PHASING PLAN. THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THE SECTION 104 EROSION CONTROL PLAN, SUBJECT TO APPROVAL OF THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES AND THE NEED FOR BETTER PRACTICES.

CONSTRUCTION ACTIVITIES - GENERAL
THE MAJOR CONTROLS OUTLINED IN THIS SWPPP ARE SEDIMENT AND EROSION CONTROL THROUGH THE PHASING OF THE CONSTRUCTION OPERATION THEREBY LIMITING THE AMOUNT OF ERODIBLE EARTH EXPOSED AT ANY GIVEN TIME. REMOVAL OF EXCESS DIRT ON THE PAVED AREAS AND THE PROTECTION OF THE EXISTING INLETS AND OUTFALLS. MAJOR EROSION PROBLEMS ARE NOT ANTICIPATED DUE TO THE NATURE OF THE PROJECT WORK, GOOD HOUSEKEEPING, EQUIPMENT MAINTENANCE AND WORK PROGRESS ARE INTEGRAL PARTS OF THIS PLAN.

PRIOR TO EXPOSING ERODIBLE EARTH, SILT FENCE WILL BE INSTALLED AT THE COLLECTOR INLETS TO PRECLUDE THE DISCHARGE OF SILT LADEN CONSTRUCTION WATERS INTO THE DRAINAGE SYSTEM.

LANDSCAPING AREAS WILL NOT BE CLEARED UNTIL THE PLANTING MATERIALS ARE AVAILABLE FOR A PARTICULAR SITE. CONTROLLING THE AMOUNT OF ERODIBLE EARTH EXPOSED AT ANY GIVEN TIME WILL REDUCE THE POTENTIAL FOR SEDIMENT TRANSPORT.

PLANTINGS, SODDING AND MULCHING WILL BEGIN WITHIN 7 DAYS OF FINAL GRADING AND SITE PREPARATION ACTIVITIES.

STOCKPILED MATERIALS WILL NOT BE STORED ON SITE FOR MORE THAN 24 HOURS PRIOR TO INSTALLATION NOR WILL THEY BE LOCATED ADJACENT TO WATER BODIES OR INLETS, SHOULD A SITUATION ARISE THAT REQUIRES THE MATERIAL TO BE STOCKPILED FOR MORE THAN 24 HOURS, SEDIMENT CONTROLS WILL BE PROVIDED TO REDUCE THE POTENTIAL FOR SEDIMENT TRANSPORT.

2. A.1 STABILIZATION PRACTICES
STABILIZATION MEASURES WILL BE INITIATED AS SOON AS PRACTICAL BUT IN NO CASE MORE THAN 7 DAYS AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.
TEMPORARY: WATER EXPOSED SOILS, SEED, MULCH AND SOO IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 104.
PERMANENT: MULCH, SOO, SHRUBS AND TREES

2. A.2 STRUCTURAL PRACTICES
SEDIMENT CONTROLS WILL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE THE FOLLOWING:

TEMPORARY: INLET PROTECTION; FILTER FABRIC, SILT FENCE
PERMANENT: EXISTING INLETS, SWALES AND DITCH BLOCKS, BERMS AND WALLS

2. B. STORMWATER MANAGEMENT
THE EXISTING STORMWATER MANAGEMENT DESIGN WILL NOT BE ALTERED.

2. C. OTHER CONTROLS

2. C.1 WASTE DISPOSAL
IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIAL INTO THE SURFACE WATER. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES.
DISPOSE OF ALL FERTILIZED OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
DISPOSE OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS OR WETLANDS.
DISPOSE OR RECYCLE MATERIALS IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATION.

2. C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL
IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING UNLESS OTHERWISE APPROVED BY THE ENGINEER.

COVER LOADED HAUL TRUCKS WITH TARPULINS.
REMOVE EXCESS DIRT FROM ROADS DAILY.
STABILIZE CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD 106. (CONSTRUCTION ENTRANCES ARE ALREADY STABILIZED FOR THIS PROJECT.)

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

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH THE APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL AND SANITARY SEWER OR SEPTIC SYSTEMS. ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSE SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.

2. C.4 FERTILIZERS OR PESTICIDES:
IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS, PESTICIDES AND HERBICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF EITHER SECTION 570 OF THE SPECIFICATIONS. CONTAINERS WILL BE DISPOSED OF AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS. RESIDUE FROM APPLICATORS WILL BE DISPOSED OF PROPERLY, NOT POURED INTO THE LAKES, CANALS OR INLETS.
HERBICIDES AND PESTICIDES SHALL BE STORED ONSITE IN THEIR ORIGINAL CONTAINERS WITH PRODUCT LABEL INTACT.

2. C.5 TOXIC SUBSTANCES

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN OF ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE AND DISPOSAL OF THESE SUBSTANCES. ABSORBENT MATERIALS WILL BE KEPT IN THE VEHICLES TO HANDLE ACCIDENTAL SPILLS OR LEAKS FROM VEHICLES AND OTHER EQUIPMENT AND PLASTIC SHEETING SHALL BE AVAILABLE TO PROTECT CONTAMINATED AREAS FROM RAINFALL. THE PROPER AUTHORITIES AT FOOT AND/OR EMERGENCY UNITS SHALL BE CONTACTED SHOULD AN ACCIDENTAL SPILL OCCUR.
CONTRACTOR SHALL PROVIDE A PROJECT SPECIFIC HAZARDOUS MATERIALS SPILL CONTROL PLAN IN ORDER TO ADDRESS THE HANDLING OF HYDROCARBON AND HAZARDOUS MATERIALS.
PETROLEUM PRODUCTS SHALL BE STORED IN COVERED AREAS WITH SECONDARY CONTAINMENT SURROUNDING CONTAINER.
TOXIC HAZARDOUS MATERIALS EXPOSED DURING CONSTRUCTION ACTIVITIES SHALL BE HANDLED AS PER THE FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

2. D. PERMITS: FOEP NPDES PERMIT

THE CONTRACTOR SHALL APPLY TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR THE NPDES GENERAL CONSTRUCTION PERMIT PRIOR TO CONSTRUCTION USING AND UPDATING (IF NEEDED) THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

3.0 MAINTENANCE
IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL, AT A MINIMUM, COMPLY WITH THE FOLLOWING:

ALL EROSION CONTROL FEATURES WILL BE MAINTAINED TO FUNCTION AS DESCRIBED IN THE SWPPP AND THE FOOT STANDARDS.
FILTER FABRIC: ROUTINELY REMOVE DIRT AND DEBRIS FROM THE FABRIC SO AS NOT TO IMPEDE WATER FLOW. TORN FABRICS WILL BE REPLACED IMMEDIATELY.
SODDING: REPAIR WASHOUTS AND BARE SPOTS IMMEDIATELY.
SILT FENCE: SILT FENCE WILL BE INSTALLED PER FOOT STANDARDS. TORN OR BREACHED FENCE WILL BE REPAIRED IMMEDIATELY. SILT BUILDUP CAUSING EXCESS PONDING WILL BE REMOVED AS NEEDED AND PRIOR TO THE FINAL REMOVAL OF THE SILT FENCE.
BUFFER ZONES: STABILIZE BARE SPOTS.

4.0 INSPECTIONS
QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL WHERE THE SITE HAS BEEN PERMANENTLY STABILIZED. INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO ENSURE THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN. THE FOLLOWING ITEMS WILL BE INSPECTED:

POINTS OF DISCHARGE TO SURFACE WATERS OR WETLANDS.
POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM SEWER SYSTEMS (INLET).
DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
STRUCTURAL CONTROLS FOR EXAMPLE FILTER FABRIC AND SILT FENCE LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE (TRACKING)

5.0 NON-STORMWATER DISCHARGES
IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES SUCH AS THOSE LISTED BELOW (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES.

WATER FROM DUST CONTROL OPERATIONS
EQUIPMENT WASHOUT
IRRIGATION

IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR IS TO CEASE OPERATIONS IN THAT AREA. THE CONTRACTOR SHALL CONTACT MAURICIO GOMEZ, DISTRICT CONTAMINATION IMPACT COORDINATOR AT 304-470-5228.

REVISIONS				LANDSCAPE ARCHITECT OF RECORD (SCALE & SEAL NO. 0001913)		STATES OF FLORIDA		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DEPARTMENT OF TRANSPORTATION	ROAD NO.	
						834	BROWARD	LD-41
KEITH and SCHNARS, P.A. <small>8300 N. Andrews Ave., Ft. Lauderdale, FL 33308-3132 (954)776-1818</small>						FINANCIAL PROJECT ID: 431526-1-52-01		STORMWATER POLLUTION PREVENTION PLAN

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 600-1.0(d), F.A.C.

SECTION No.(s): 86028
S.R. No.(s): 834
FM/PERMIT No: 431526-1-52-01/02
COUNTY: BROWARD

EXHIBIT C

LANDSCAPE IMPROVEMENT MAINTENANCE PLANS

MAINTENANCE PLAN Landscape Improvements

Project State Road No(s): 834 (Sample Road) from State Road 91 (Florida Turnpike)
(M.P. 5.030) to Military Trail (M.P. 7.116)
FM No(s): 431526-1-52-01/02
Maintaining Agency: City of Pompano Beach
RLA of Record: Bruce K. Reed
Date: October 22, 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. I, Chapter 2.11* and *FDOT Standard Specifications for Road and Bridge Construction*, as amended by contract documents, and all other requirements set forth by the District 4 Operations Maintenance Engineer. The initial portion of the Maintenance Plan describes general maintenance requirements and recommendations. The concluding section provides recommendations prepared by the Registered Landscape Architect of Record specific to the attached approved plans.

WATERING REQUIREMENTS

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

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

IRRIGATION SYSTEM

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

INTEGRATED PLANT MANAGEMENT

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

