CITY OF MARGATE, FLORIDA

RESOLUTION NO. 11-484

A RESOLUTION OF THE CITY OF MARGATE, FLORIDA, APPROVING AMENDMENT NUMBER ONE TO DISTRICT FOUR (4) MAINTENANCE MEMORANDUM OF AGREEMENT INCLUSIVE AGREEMENT WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION FOR MAINTENANCE OF LANDSCAPING IMPROVEMENTS ON STATE ROADS IN THE CITY OF MARGATE.

BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF MARGATE, FLORIDA:

SECTION 1: That the City Commission of the City of Margate, Florida hereby approves Amendment Number One to District Four (4) Maintenance Memorandum of Agreement Inclusive Agreement with the Florida Department of Transportation for maintenance of landscaping improvements on State roads in the City of Margate.

SECTION 2: That the Mayor and City Manager are hereby authorized and directed to execute said agreement on behalf of the City of Margate, a copy of which is attached and made a part of this Resolution.

SECTION 3: That this Resolution shall become effective immediately upon its passage.

PASSED, ADOPTED AND APPROVED THIS 1st DAY OF JULY, 2009.

ATTEST:

LESLIE RAE WALLACE
CITY CLERK

MAYOR ARTHUR J. BROSS

RECORD OF VOTE

Donovan	Yes
McLean	Yes
Talerico	Aye
Varsallone	Aye
Bross	Aye

SECTION NO.:	**86100000**
FM NO. (s):	**416878-1-52-01**
COUNTY:	**BROWARD**
S.R. NO(s).:	**7 (US 441)**

AMENDMENT # ONE TO DISTRICT FOUR STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION AND CITY OF MARGATE HIGHWAY LANDSCAPE INCLUSIVE MEMORANDUM OF AGREEMENT

This is Amendment Number One to the Agreement dated July 16, 2008, made and entered into this 10th day of July 2009 by and between the State of Florida Department of Transportation hereinafter called the "DEPARTMENT" and the CITY OF MARGATE, a political subdivision of the State of Florida, hereinafter called the "AGENCY".

WITHNESSETH

WHEREAS, the parties entered into the Inclusive Maintenance of Agreement dated July 16, 2008 for the purpose of maintaining landscape by the AGENCY on various State Roads including State Road 7 (US 441) and

WHEREAS, the DEPARTMENT and the AGENCY have agreed to add additional landscape to be installed on State Road 7 (US 441) in accordance with the above referenced Agreement;

WHEREAS, the AGENCY by Resolution No. 11-484 dated July 1, 2009, attached hereto and by this reference made a part hereof, desires to enter into this Agreement and authorizes its officers to do so;

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

Pursuant to paragraph 14 of the Inclusive Agreements for State Road 7 (US 441) dated July 16, 2008 the **DEPARTMENT** has decided to construct additional landscape improvements or to modify an improvement located as indicated in Exhibit A. State Road 7 (US 441) from SW 8th Court (M.P. 17.040) to just north of N.W. 31st Street (M.P. 20.592) in accordance with the plans attached as Exhibit B.

1. The **AGENCY** shall agree to maintain the landscape improvements in the Inclusive Agreement described above and as provided in accordance with the Maintenance Plan, attached as Exhibit C.

2. The **DEPARTMENT** agrees to enter into a contract to have installed said landscape improvements for an amount as indicated in Exhibit D not to exceed **$1,066,728.69**.

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

Exhibits

Exhibit A - PROJECT LOCATION & PROJECT LOCATION MAP
Exhibit B - PROJECT PLANS
Exhibit C - MAINTENANCE PLAN
Exhibit D - PROJECT COSTS

In Witness whereof, the parties hereto have executed with this Amendment effective the 10th day July year written and approved.

City of Margate
a municipal corporation.

BY:

Chairperson/Mayor/Director of Parks & Recreation/City Manager/City Engineer/ Director of Public Works
Francis J. Porcella, City Manager

7/6/09
Date

City Attorney,
Eugene Steinfeld

Arthur J. Bross, Mayor

State of Florida
Department of Transportation

BY:

Transportation Development Director

9/9/2009
Date

District General Counsel

SECTION NO.:	**86100000**
FM NO. (s):	**416878-1-52-01**
COUNTY:	**BROWARD**
S.R. NO(s).:	**7 (US 441)**

EXHIBIT A

PROJECT LOCATION AND MAINTENANCE BOUNDARIES

I. PROJECT LOCATION FOR THE ROADWAY PROJECT:

State Road 7 (U.S. 441) from Cypress Creek Canal (M.P. 17.828) to SR 834 Sample Road (M.P. 20.865)

II. PROJECT LIMITS OF FOR THIS LANDSCAPE PROJECT:

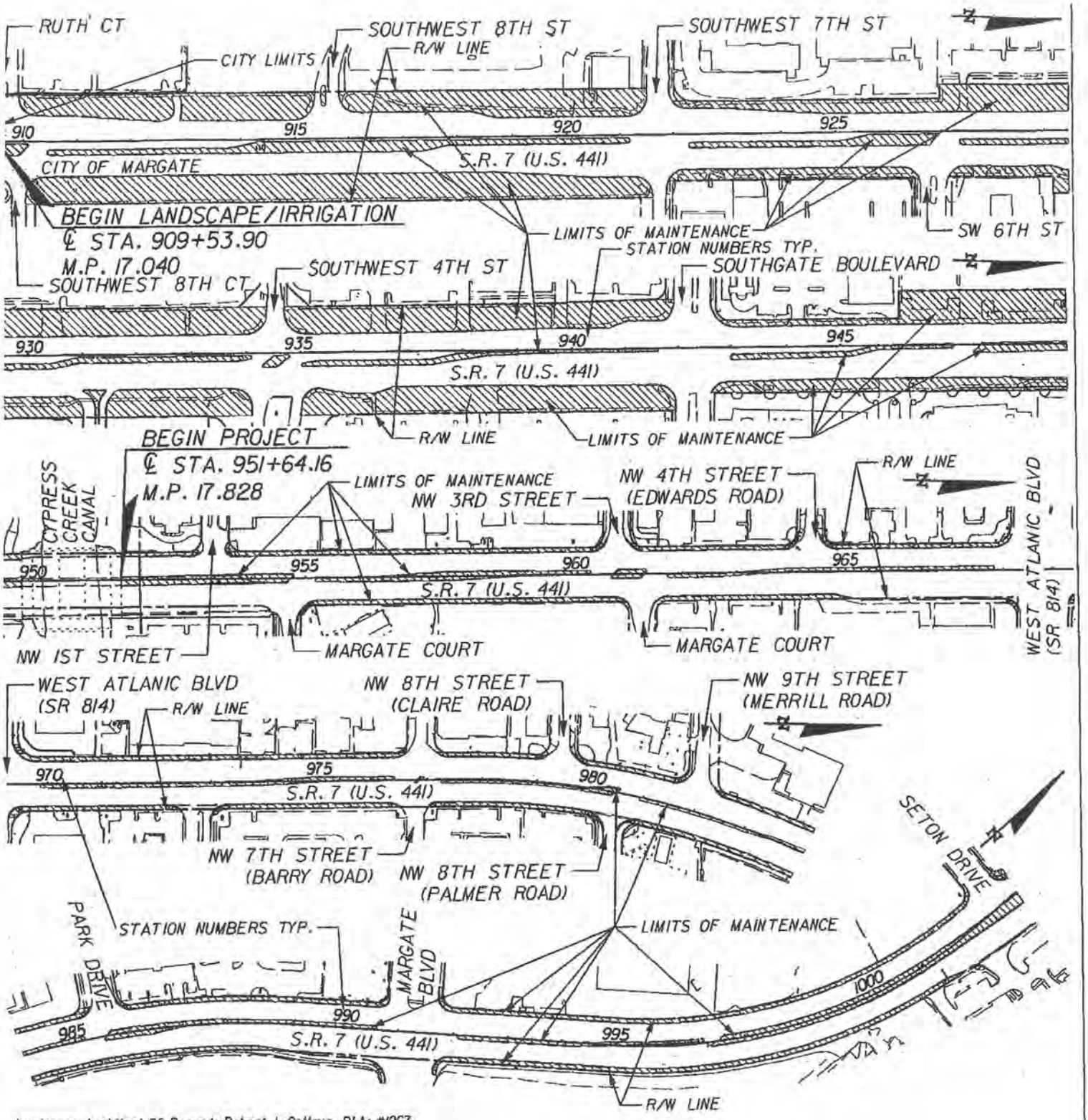
State Road 7 (U.S. 441) from S.W. 8th Court (M.P. 17.040) to north of NW 31st Street (M.P. 20.592).

III. LIMITS OF MAINTENANCE FOR STATE ROAD 7 (US 441):

State Road 7 (US 441) from (M.P. 16.698) to North of N.W. 31st Street (M.P. 20.600)

IV. PROJECT MAINTENANCE MAP:

See Attachments for Limits of Maintenance Map



Landscape Architect Of Record: Robert J. Cotleur, RLA: #1067

Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000239
Vendor No. 65-0270814

Limits of Maintenance Map

City of Margate

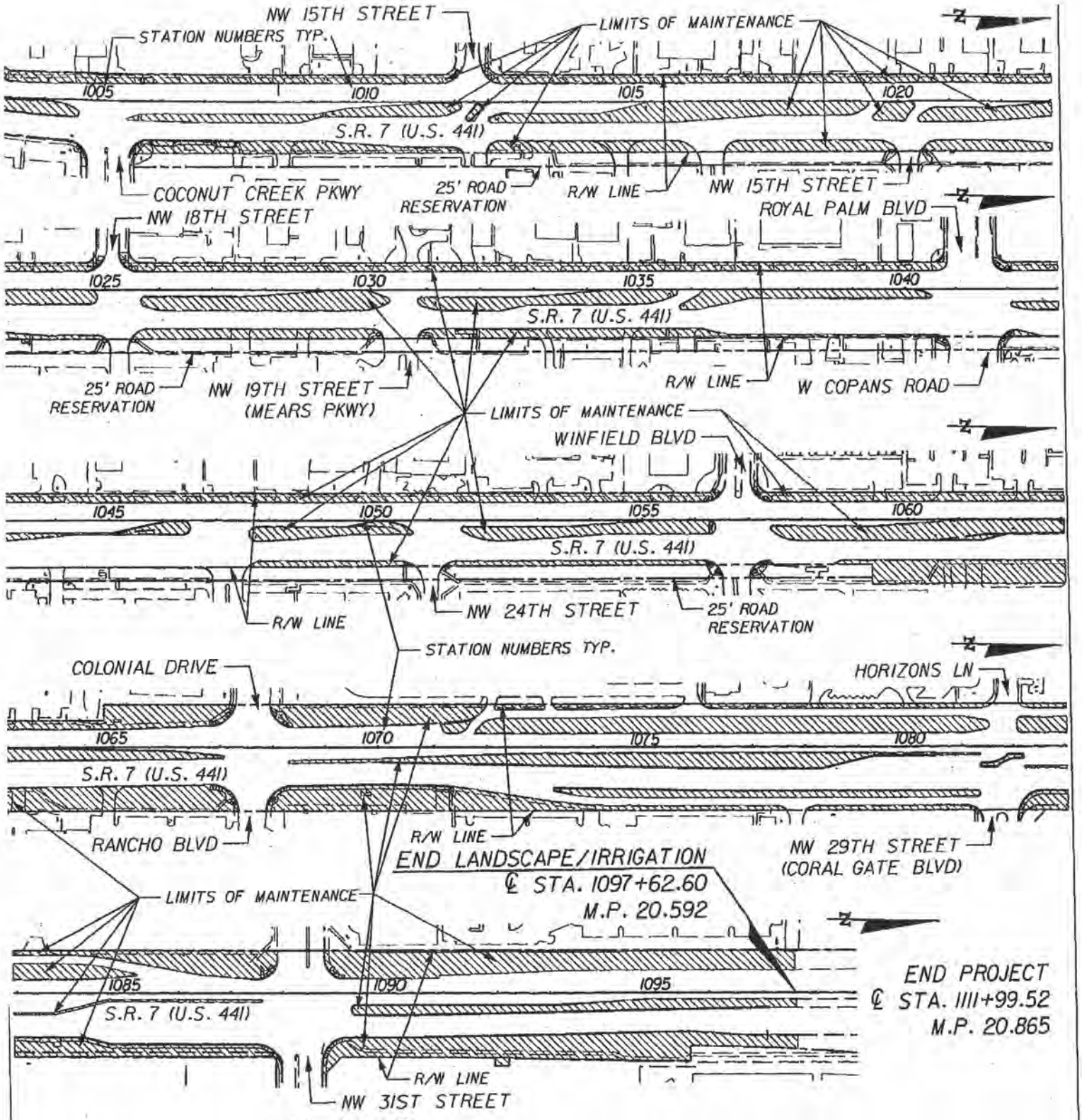
SR 7 Resurfacing - Landscape Project

Florida Department Of Transportation

FPI No. 416878-1-52-01

LIMITS OF MAINTENANCE BY CITY OF MARGATE

Not To Scale
CH Project No. 07-0115
June 10, 2009
Sht 1 of 2



Landscape Architect Of Record: Robert J. Cotleur, RLA: #1067

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1934 Commerce Lane Suite 1
Jupiter, Florida 33458
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Limits of Maintenance Map

City of Margate

SR 7 Resurfacing - Landscape Project

Florida Department Of Transportation

FPI No. 416878-1-52-01

LIMITS OF MAINTENANCE BY CITY OF MARGATE

Not To Scale
CH Project No. 07-0115
June 10, 2009
Sht 2 of 2

SECTION NO.:	**86100000**
FM NO. (s):	**416878-1-52-01**
COUNTY:	**BROWARD**
S.R. NO(s).:	**7 (US 441)**

EXHIBIT B

PROJECT PLANS

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

Please see attached plans prepared by: Cotleur & Hearing, Inc., Robert J. Cotleur, R.L.A.

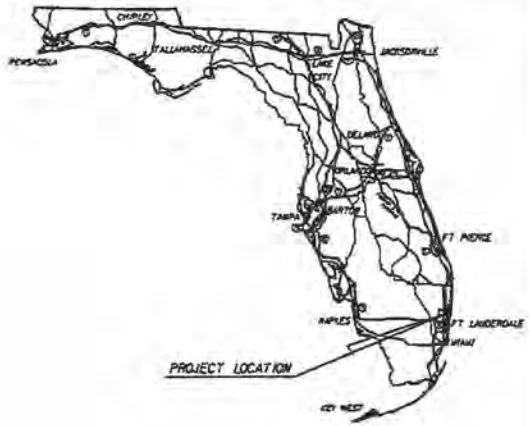
Date: June 10, 2009

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 416878-1-52-01
(FEDERAL FUNDS)
BROWARD COUNTY (86100)
STATE ROAD NO. 7

LANDSCAPE PLANS



INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2 TO LD-6	TABULATION OF QUANTITIES / PLANT SCHEDULE
LD-7	LANDSCAPE GENERAL NOTES
LD-8	LANDSCAPE DETAILS
LD-9	PAVER DETAILS
LD-10 TO LD-38	LANDSCAPE PLAN
LD-39	IRRIGATION LEGEND AND TABULATION OF QUANTITIES
LD-40	IRRIGATION GENERAL NOTES AND DETAILS
LD-41	IRRIGATION DETAILS
LD-42 TO LD-70	IRRIGATION PLAN

LANDSCAPE SHOP DRAWINGS
TO BE SUBMITTED TO:

ROBERT J. COTLEUR
COTLEUR & HEARING, INC.
1934 COMMERCE LANE, SUITE 1
JUPITER, FL 33458

PLANS PREPARED BY:
Landscape Architect Of Record: Robert J. Cotleur, RLA: #1057

Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000239
Vendor No. 65-0270604

CONTRACT NO. C-BN24

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

JUN 10 2009

KEY SHEET REVISIONS	
DATE	DESCRIPTION

LANDSCAPE PLANS
LANDSCAPE
ARCHITECT OF RECORD: ROBERT J. COTLEUR

R.L.A. NO.: 1057

FISCAL YEAR	SHEET NO.
10	LD-1

FDOT PROJECT MANAGER: DONOVAN PESSOA, P.E.

6/10/2009 3:47:35 PM

TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	SYM	DESCRIPTION	SIZE/REMARKS	NATIVE	* MAXIMUM MAINTAINED SIZE	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		REF. SHEET
							LD-10		LD-11		LD-12		LD-13		LD-14		LD-15				
							PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
526-1-2		PAVERS, ARCHITECTURAL (SIDEWALK)				SY	103		122				21		37		22		305		
570-1-2		PERFORMANCE SOD (ST. AUGUSTINE)				SY	184		270										454		
580-1-1		SMALL PLANTS				LS													1		
	CI	Chrysobalanus icaco 'Red Tip' - Red Tip Cocoplum	#3 GAL, 1.5'x 1.5', 2.5' OC	Y	4'						130		158		56		20		364		
	CID	Chrysobalanus icaco 'Horizontalis' - Dwarf Cocoplum	#3 GAL, 12"x 18", 2' OC	Y	2'												34		34		
	CV	Codiaeum var. 'Norma' & 'Corkscrew' - Croton (Mix)	#3 GAL, 24"x 24", 2' OC, 1/3 CORKSCREW, 2/3 NORMA PER MASS	N	4'		9												9		
	DT	Dianella tasmanica - Blueberry Flax Lily	#3 GAL, 1'x 1.5', 2' OC	N	1.8'		53				12		142		76		100		393		
	FG	Ficus macrophylla 'Green Island' - Green Island Ficus	#3 GAL, 18"x 18", 2' OC	N	3'						130		112		84				326		
	JP	Juniperus parsonii - Parsons Juniper	#3 GAL, 1'x 1.5', 2' OC	N	2'		52												52		
	N	Ilex vomitoria 'Stokes Dwarf' - Dwarf Youpon Holly	#3 GAL, 12"x 12", 2' OC	Y	2.4'						250		250		145		66		711		
	PD	Podocarpus macr. 'Pringles' or 'Maki' - Dwarf Podocarpus	#3 GAL, 1.5'x 1.5', 2' OC	N	2'														0		
	SAV	Schefflera arboricola 'Trinette' - Dwarf Variegated Schefflera	#3 GAL, 18"x 18", 2.5' OC	N	3.5'														0		
	SB	Spartina bakeri - Sand Cordgrass	#3 GAL, 1.5'x 1.5', 2.5' OC	Y	3.8'		45		80				35		86		42		158		
	TD	Tripsacum dactyloides - Fakahatchee Grass	#3 GAL, 2'x 2', 2.5' OC	Y	4'				110								30		180		
	TRF	Tripsacum floridana - Florida Gama Grass	#3 GAL, 2'x 2', 2.5' OC	Y	3'		45		75										120		
580-1-2		LARGE PLANTS				LS													1		
	BM	Bismarckia nobilis - Bismarckia Palm	8' CT, SINGLE	N	NF		3												3		
	BS	Bursera simaruba - Gumbo Limbo	14'x 6', 4" CAL, FULL	Y	NF				3										3		
	CES	Conocarpus erectus var. sericeus - Silver Buttonwood	10'x 5', STANDARD	Y	NF														0		
	LD	Livistonia decipiens - Ribbon Palm	8'-10' CT, SINGLE	N	NF														0		
	PEA	Ptychosperma elegans - Solitaire Palm	MIN 10' CT, SINGLE, MAX 4" CAL, MATCHED, SEE LS. NOTE #14	N	NF						4		1						5		
	PHM	Phoenix dactylifera 'Medjool' - Medjool Date Palm	12' OW / 15' CT, MAX 18" CAL, SEE LS. NOTE #14	N	NF		1						3		1				5		
	QV	Quercus virginiana - Live Oak	12'-14' OA, 3" CAL, FULL, 5' CT	Y	NF				3		5								8		
	SP	Sabal palmetto - Sabal Palmetto	10', 14', 20' CT, STGG	Y	NF														0		
590-70		IRRIGATION SYSTEM				LS															

LEGEND: OC= ON CENTER, CT= CLEAR TRUNK, GAL= GALLON, MAX= MAXIMUM, MIN= MINIMUM, CAL= CALIPER, GW= GREY WOOD, N= NO, Y= YES, LS.= LANDSCAPE, STGG= STAGGERED, NF= NATURAL FORM, OA= OVER ALL, SPRD= SPREAD

* WHERE SHRUBS AND GROUNDCOVERS ARE LOCATED WITHIN SIGHT TRIANGLES, THE MAXIMUM MAINTAINED HEIGHT SHALL BE 24" FROM ROADWAY GRADE AS SHOWN IN TYPICAL MEDIAN SECTION.

JUN 10 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Colleur, FLA: #667
Colleur Hearing
1534 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000239
Vendor No. 65-0870814

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	415878-1-52-01

TABULATION OF QUANTITIES / PLANT SCHEDULE

SHEET NO. LD-2

TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	SYM	DESCRIPTION	SIZE/REMARKS	NATIVE	* MAXIMUM MAINTAINED SIZE	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		REF. SHEET
							LD-16		LD-17		LD-18		LD-19		LD-20		LD-21				
							PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
526-1-2		PAVERS, ARCHITECTURAL (SIDEWALK)				SY	18		35		21		23		34				131		
570-1-2		PERFORMANCE SOD (ST. AUGUSTINE)				SY									53		374		427		
580-1-1		SMALL PLANTS				LS													1		
	CI	Chrysobalanus icaco 'Red Tip' - Red Tip Cocoplum	#3 GAL, 1.5'x 1.5', 2.5' OC	Y	4'		85				90				50				225		
	CID	Chrysobalanus icaco 'Horizontalis' - Dwarf Cocoplum	#3 GAL, 12"x 18", 2' OC	Y	2'		50		66		29		76						221		
	CY	Codiaeum var. 'Norma' & 'Corkscrew' - Croton (Mix)	#3 GAL, 24"x 24", 2' OC, 1/3 CORKSCREW, 2/3 NORMA PER MASS	N	4'														0		
	DT	Dianella tasmanica - Blueberry Flax Lily	#3 GAL, 1'x 1.5', 2' OC	N	1.8'		50		80		104		70		30		50		384		
	FG	Ficus macrophylla 'Green Island' - Green Island Ficus	#3 GAL, 18"x 18", 2' OC	N	3'		75				80		90		45		68		358		
	JP	Juniperus parsonii - Parsons Juniper	#3 GAL, 1'x 1.5', 2' OC	N	2'				68		160				48				276		
	IV	Ilex vomitoria 'Stokes Dwarf' - Dwarf Yaupon Holly	#3 GAL, 12"x 12", 2' OC	Y	2.4'		150		77		250		70		80				627		
	PD	Podocarpus macr. 'Pringles' or 'Weta' - Dwarf Podocarpus	#3 GAL, 1.5'x 1.5', 2' OC	N	2'				65				60		40				165		
	SAV	Schefflera arboricola 'Trinette' - Dwarf Variegated Schefflera	#3 GAL, 18"x 18", 2.5' OC	N	3.5'		95								95				191		
	SB	Spartina bakeri - Sand Cordgrass	#3 GAL, 1.5'x 1.5', 2.5' OC	Y	3.8'												295		295		
	TD	Tripsacum dactyloides - Fakahatchee Grass	#3 GAL, 2'x 2', 2.5' OC	Y	4'												80		80		
	TRF	Tripsacum floridana - Florida Gama Grass	#3 GAL, 2'x 2', 2.5' OC	Y	3'														0		
580-1-2		LARGE PLANTS				LS													1		
	BN	Bismarckia nobilis - Bismarckia Palm	8' CT, SINGLE	N	NF														0		
	BS	Bursera simaruba - Gumbo Limbo	14'x 6', 4" CAL, FULL	Y	NF														0		
	CES	Conocarpus erectus var. sericeus - Silver Buttonwood	10'x 6', STANDARD	Y	NF														0		
	LD	Livistonia decipiens - Ribbon Palm	8'-10' CT, SINGLE	N	NF												8		8		
	PEA	Ptychosperma elegans - Solitaire Palm	MIN 10' CT, SINGLE, MAX 4" CAL, MATCHED, SEE LS. NOTE #14	N	NF						4				1		7		12		
	PHM	Phoenix dactylifera 'Medjool' - Medjool Date Palm	12' GW / 15' CT, MAX 18" CAL, SEE LS. NOTE #14	N	NF				1										1		
	QV	Quercus virginiana - Live Oak	12'-14' OA, 3" CAL, FULL, 5' CT	Y	NF												2		2		
	SP	Sabal palmetto - Sabal Palmetto	10', 14', 20' CT, STGG	Y	NF														0		
590-70		IRRIGATION SYSTEM				LS													0		

LEGEND: OC= ON CENTER, CT= CLEAR TRUNK, GAL= GALLON, MAX= MAXIMUM, MIN= MINIMUM, CAL= CALIPER, GW= GREY WOOD, N= NO, Y= YES, LS.= LANDSCAPE, STGG= STAGGERED, NF= NATURAL FORM, OA= OVER ALL, SPRD= SPREAD

* = WHERE SHRUBS AND GROUNDCOVERS ARE LOCATED WITHIN SIGHT TRIANGLES, THE MAXIMUM MAINTAINED HEIGHT SHALL BE 24" FROM ROADWAY GRADE AS SHOWN IN TYPICAL MEDIAN SECTION.

JUN 16 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotteur, RLA: #657
Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-5335 Fax 561-747-1377
Certif. of Auth. LC-C000239
Vendor No. 65-0270814

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

TABULATION OF QUANTITIES / PLANT SCHEDULE

SHEET NO. LD-3

6/10/2009 2:47:31 PM T:\Projects-Lost\416878\52\Tabulation\Tabul_052.dgn

TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	SYM	DESCRIPTION	SIZE/REMARKS	NATIVE	* MAXIMUM MAINTAINED SIZE	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		REF. SHEET
							LD-22		LD-23		LD-24		LD-25		LD-26		LD-27				
							PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
526-1-2		PAVERS, ARCHITECTURAL (SIDEWALK)				SY	129		287		255		254		199		236		1,360		
570-1-2		PERFORMANCE SOD (ST. AUGUSTINE)				SY	243		213		847		641		777		499		3,225		
580-1-1		SMALL PLANTS				LS													1		
	CI	Chrysobalanus icaco 'Red Tip' - Red Tip Cocoplum	#3 GAL, 1.5'x 1.5', 2.5' OC	Y	4'		60						50		80		95		285		
	CID	Chrysobalanus icaco 'Hartzonfalls' - Dwarf Cocoplum	#3 GAL, 12"x 18", 2' OC	Y	2'				95		160								255		
	CV	Codiaeum var. 'Mamo' & 'Cortscrew' - Croton (Mix)	#3 GAL, 24"x 24", 2' OC, 1/3 CORKSCREW, 2/3 MORMA PER MASS)	N	4'														0		
	DT	Dianella tasmanica - Blueberry Flax Lily	#3 GAL, 1'x 1.5', 2' OC	N	1.8'				125		60		150				40		375		
	FG	Ficus macrophylla 'Green Island' - Green Island Ficus	#3 GAL, 18"x 18", 2' OC	N	3'		70		185				100						355		
	IV	Ilex vomitoria 'Stokes Dwarf' - Dwarf Youpon Holly	#3 GAL, 12"x 12", 2' OC	Y	2.4'														0		
	JP	Juniperus parsonii - Parsons Juniper	#3 GAL, 1'x 1.5', 2' OC	N	2'		55		80		50		70		41		108		404		
	PD	Podocarpus macr. 'Pringles' or 'Weto' - Dwarf Podocarpus	#3 GAL, 1.5'x 1.5', 2' OC	N	2'														0		
	SAV	Schefflera arboricola 'Trinette' - Dwarf Variegated Schefflera	#3 GAL, 18"x 18", 2.5' OC	N	3.5'		110						66		100		95		371		
	SB	Spartina bakeri - Sand Cordgrass	#3 GAL, 1.5'x 1.5', 2.5' OC	Y	3.8'		135				220		80		140		145		720		
	TD	Tripsacum dactyloides - Fakahatchee Grass	#3 GAL, 2'x 2', 2.5' OC	Y	4'		30		65		110		66		120		75		456		
	TRF	Tripsacum floridana - Florida Gama Grass	#3 GAL, 2'x 2', 2.5' OC	Y	3'		110		75		140		104		140		143		712		
580-1-2		LARGE PLANTS				LS													1		
	BN	Bismarckia nobilis - Bismarckia Palm	6' CT, SINGLE	N	NF						3						3		6		
	BS	Bursera simaruba - Gumbo Limbo	14'x 6', 4" CAL, FULL	Y	NF														0		
	CES	Coccoloba erectus var. sericeus - Silver Buttonwood	10'x 6', STANDARD	Y	NF								1						1		
	LD	Livistonia decipiens - Ribbon Palm	8'-10' CT, SINGLE	N	NF						5		3						8		
	PEA	Ptychosperma elegans - Solitaire Palm	MIN 10' CT, SINGLE, MAX 4" CAL, MATCHED, SEE LS. NOTE #14	N	NF								4		6		2		12		
	PHM	Phoenix dactylifera 'Medjool' - Medjool Date Palm	12' GW / 15' CT, MAX 18" CAL, SEE LS. NOTE #14	N	NF														0		
	QV	Quercus virginiana - Live Oak	12'-14' OA, 3" CAL, FULL, 5' CT	Y	NF		4		1		1				1		4		11		
	SP	Sabal palmetto - Sabal Palmetto	10', 14', 20' CT, STGG	Y	NF														0		
590-70		IRRIGATION SYSTEM				LS															

LEGEND: OC= ON CENTER, CT= CLEAR TRUNK, GAL= GALLON, MAX= MAXIMUM, MIN= MINIMUM, CAL= CALIPER, GW= GREY WOOD, N= NO, Y= YES, LS.= LANDSCAPE, STGG= STAGGERED, NF= NATURAL FORM, OA= OVER ALL, SPRD= SPREAD

* WHERE SHRUBS AND GROUNDCOVERS ARE LOCATED WITHIN SIGHT TRIANGLES, THE MAXIMUM MAINTAINED HEIGHT SHALL BE 24" FROM ROADWAY GRADE AS SHOWN IN TYPICAL MEDIAN SECTION.

JUN 19 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, R.L.A. #667
Cotleur Hearing
6934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000259
Vendor No. 65-0270864

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

TABULATION OF QUANTITIES / PLANT SCHEDULE

SHEET NO. LD-4

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TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	SYM	DESCRIPTION	SIZE/REMARKS	NATIVE	* MAXIMUM MAINTAINED SIZE	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		REF. SHEET
							LD-28		LD-29		LD-30		LD-31		LD-32		LD-33				
							PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
526-1-2		PAVERS, ARCHITECTURAL (SIDEWALK)				SY	185		85		203		207		249		129		1,058		
570-1-2		PERFORMANCE SOD (ST. AUGUSTINE)				SY	225		80		389		428		854		37		2,023		
580-1-1		SMALL PLANTS				LS													1		
	CI	Chrysobalanus icaco 'Red Tip' - Red Tip Cocoplum	#3 GAL, 1.5'x 1.5', 2.5' OC	Y	4'		45		85		110		116		60		120		536		
	CID	Chrysobalanus icaco 'Horizontalis' - Dwarf Cocoplum	#3 GAL, 12"x 18", 2' OC	Y	2'		180												180		
	CV	Codiaeum var. 'Norma' & 'Corkscrew' - Croton (Mix)	#3 GAL, 24"x 24", 2' OC, 1/3 CORKSCREW, 2/3 NORMA PER MASS	N	4'														0		
	DT	Dianella tasmanica - Blueberry Flax Lily	#3 GAL, 1'x 1.5', 2' OC	N	1.8'		25										64		89		
	FG	Ficus macrophylla 'Green Island' - Green Island Ficus	#3 GAL, 18"x 18", 2' OC	N	3'				90										90		
	IV	Ilex vomitoria 'Stokes Dwarf' - Dwarf Youpon Holly	#3 GAL, 12"x 12", 2' OC	Y	2.4'												22		22		
	JP	Juniperus parsonii - Parsons Juniper	#3 GAL, 1'x 1.5', 2' OC	N	2'		16		49		76		52				65		258		
	PD	Podocarpus macr. 'Pringles' or 'Nota' - Dwarf Podocarpus	#3 GAL, 1.5'x 1.5', 2' OC	N	2'		80		55		40						154		329		
	SAV	Schefflera arboricola 'Trinette' - Dwarf Variegated Schefflera	#3 GAL, 18"x 18", 2.5' OC	N	3.5'		35		85		160		105		65		110		560		
	SB	Spartina bakeri - Sand Cordgrass	#3 GAL, 1.5'x 1.5', 2.5' OC	Y	3.8'		90				75		120		170		5		460		
	TD	Tripsacum dactyloides - Fatchatchee Grass	#3 GAL, 2'x 2', 2.5' OC	Y	4'								70		215				285		
	TRF	Tripsacum floridana - Florida Gama Grass	#3 GAL, 2'x 2', 2.5' OC	Y	3'		60		95		100		85		170				510		
580-1-2		LARGE PLANTS				LS													1		
	BN	Bismarckia nobilis - Bismarckia Palm	8' CT, SINGLE	N	NF														0		
	BS	Bursera simaruba - Gumbo Limbo	14'x 6', 4" CAL, FULL	Y	NF										4		2		6		
	CES	Conocarpus erectus var. sericeus - Silver Buttonwood	10'x 6', STANDARD	Y	NF						1		4						5		
	LD	Livistonia decipiens - Ribbon Palm	8'-10' CT, SINGLE	N	NF										11				11		
	PEA	Prychosperma elegans - Solitaire Palm	MIN 10' CT, SINGLE, MAX 4" CAL, MATCHED, SEE LS. NOTE #14	N	NF		7										6		13		
	PHM	Phoenix dactylifera 'Medjool' - Medjool Date Palm	12' GW / 15' CT, MAX 18" CAL, SEE LS. NOTE #14	N	NF														0		
	QV	Quercus virginiana - Live Oak	12'-14' OA, 3" CAL, FULL, 5' CT	Y	NF		3								6				9		
	SP	Sabal palmetto - Sabal Palmetto	10', 14', 20' CT, STGG	Y	NF														0		
590-70		IRRIGATION SYSTEM				LS															

LEGEND: OC= ON CENTER, CT= CLEAR TRUNK, GAL= GALLON, MAX= MAXIMUM, MIN= MINIMUM, CAL= CALIPER, GW= GREY WOOD, N= NO, Y= YES, LS.= LANDSCAPE, STGG= STAGGERED, NF= NATURAL FORM, OA= OVER ALL, SPRD= SPREAD

*= WHERE SHRUBS AND GROUNDCOVERS ARE LOCATED WITHIN SIGHT TRIANGLES, THE MAXIMUM MAINTAINED HEIGHT SHALL BE 24" FROM ROADWAY GRADE AS SHOWN IN TYPICAL MEDIAN SECTION.

JUL 2 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

TABULATION OF QUANTITIES / PLANT SCHEDULE

SHEET NO. LD-5

letter 8/10/2009 3:47:00 PM

TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	SYM	DESCRIPTION	SIZE/REMARKS	NATIVE	⇐ MAXIMUM MAINTAINED SIZE	UNIT	SHEET NUMBERS										TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
							LD-34		LD-35		LD-36		LD-37		LD-38						
							PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
526-1-2		PAVERS, ARCHITECTURAL (SIDEWALK) - INCLUDING CONCRETE RETAINING CURB				SY	231		164		68		153		237		853		3,707		
570-1-2		PERFORMANCE SOD (ST. AUGUSTINE)				SY	359		490								849		6,979		
580-1-1		SMALL PLANTS				LS											1		1		
	CI	Chrysobalanus icaco 'Red Tip' - Red Tip Cocoplum	#3 GAL, 1.5'x 1.5', 2.5' OC	Y	4'		100		100		45		70		130		445		1,855		
	CID	Chrysobalanus icaco 'Horizontalis' - Dwarf Cocoplum	#3 GAL, 12"x 18", 2' OC	Y	2'								170				170		860		
	CV	Codiaeum var. 'Norma' & 'Corkscrew' - Croton (Mix)	#3 GAL, 24"x 24", 2' OC, 1/3 CORKSCREW, 2/3 NORMA PER MASS	N	4'												0		9		
	DT	Dianella tasmanica - Blueberry Flax Lily	#3 GAL, 1'x 1.5', 2' OC	N	1.8'				15		20		80				115		1,357		
	FG	Ficus macrophylla 'Green Island' - Green Island Ficus	#3 GAL, 18"x 18", 2' OC	N	3'		60		47		94						201		1,330		
	JP	Juniperus parsonii - Parsons Juniper	#3 GAL, 1'x 1.5', 2' OC	N	2'				30		27		124				181		778		
	N	Ilex vomitoria 'Stokes Dwarf' - Dwarf Yaupon Holly	#3 GAL, 12"x 12", 2' OC	Y	2.4'		50		46		91						187		1,547		
	PD	Podocarpus macr. 'Pringles' or 'Weta' - Dwarf Podocarpus	#3 GAL, 1.5'x 1.5', 2' OC	N	2'										275		275		769		
	SAV	Schefflera arboricola 'Trinette' - Dwarf Variegated Schefflera	#3 GAL, 18"x 18", 2.5' OC	N	3.5'		80		24						295		399		1,679		
	SB	Spartina bakeri - Sand Cordgrass	#3 GAL, 1.5'x 1.5', 2.5' OC	Y	3.8'		195		150						140		485		2,120		
	TD	Tripsacum dactyloides - Fakahatchee Grass	#3 GAL, 2'x 2', 2.5' OC	Y	4'		110		130				180		170		590		1,531		
	TRF	Tripsacum floridana - Florida Gama Grass	#3 GAL, 2'x 2', 2.5' OC	Y	3'		115								12		127		1,469		
580-1-2		LARGE PLANTS				LS											1		1		
	BN	Bismarckia nobilis - Bismarckia Palm	8' CT, SINGLE	N	NF		3		3						4		10		19		
	BS	Bursera simaruba - Gumbo Limbo	14'x 6", 4" CAL, FULL	Y	NF		3		3				1		3		12		18		
	CES	Conocarpus erectus var. sericeus - Silver Buttonwood	10'x 6", STANDARD	Y	NF		3										3		9		
	LD	Livistonia decipiens - Ribbon Palm	8'-10' CT, SINGLE	N	NF												0		27		
	PEA	Phychosperma elegans - Solitaire Palm	MIN 10' CT, SINGLE, MAX 4" CAL, MATCHED, SEE LS. NOTE #14	N	NF				3								3		45		
	PHM	Phoenix dactylifera 'Medjool' - Medjool Date Palm	12' OH / 15' CT, MAX 18" CAL, SEE LS. NOTE #14	N	NF												0		6		
	QV	Quercus virginiana - Live Oak	12'-14' OA, 3" CAL, FULL, 5' CT	Y	NF		2		1								3		33		
	SP	Sabal palmetto - Sabal Palmetto	10', 14', 20' CT, STGG	Y	NF		14		6				9		6		35		35		
590-70		IRRIGATION SYSTEM				LS													1		

LEGEND: OC= ON CENTER, CT= CLEAR TRUNK, GAL= GALLON, MAX= MAXIMUM, MIN= MINIMUM, CAL= CALIPER, GW= GREY WOOD, N= NO, Y= YES, LS.= LANDSCAPE, STGG= STAGGERED, NF= NATURAL FORM, OA= OVER ALL, SPRD= SPREAD

⇐ WHERE SHRUBS AND GROUNDCOVERS ARE LOCATED WITHIN SIGHT TRIANGLES, THE MAXIMUM MAINTAINED HEIGHT SHALL BE 24" FROM ROADWAY GRADE AS SHOWN IN TYPICAL MEDIAN SECTION.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

TABULATION OF QUANTITIES / PLANT SCHEDULE

SHEET NO. LD-6

Feb 10 2009

PAY ITEM NOTES:

526-1-2 INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS FOR THE COMPLETE INSTALLATION OF PAVERS, INCLUDING, BUT NOT LIMITED TO, EXCAVATION, PREPARATION, INSTALLATION OF SUB-BASE, AND PAVERS. THIS PAY ITEM ALSO INCLUDES 14,583 FEET OF CONCRETE RETAINER CURB, (AS SHOWN ON THE PAVER DETAILS IN THE PLANS).

570-1-2 INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY FOR THE COMPLETE INSTALLATION OF SOD INCLUDING DELIVERY, PREPARATION, EXCAVATION, REMOVAL OF EXISTING SOD (WHERE APPLICABLE), INSTALLATION AND SOD. THIS ITEM ALSO INCLUDES ALL FERTILIZER AND WATER FOR GRASSING AS REQUIRED FOR THE COMPLETE INSTALLATION OF SOD IN ACCORDANCE WITH THE SPECIFICATIONS.

580-1-1, 580-1-2 INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS FOR THE COMPLETE INSTALLATION OF PLANT IN ACCORDANCE WITH SPECIFICATIONS AND FDOT INDEX #544 INCLUDING, BUT NOT LIMITED TO, PLANT, FINISH SOIL LAYER, UNSUITABLE SOIL REMOVAL, SPECIAL BED PREPARATION, STAKING, MULCH, PRE-EMERGENT HERBICIDE, FUNGI INOCULANTS, FERTILIZER, HAND WATERING, GUARANTY AND MAINTENANCE DURING ESTABLISHMENT PERIOD. ALSO INCLUDES THE COSTS FOR PROVIDING NEW LANDSCAPE SOIL AS SPECIFIED IN THE TECHNICAL SPECIAL PROVISIONS AND LANDSCAPE NOTES #17 AND #18.

580-70 INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS FOR THE COMPLETE INSTALLATION OF AUTOMATIC IRRIGATION SYSTEM BY MEANS OF DIRECTIONAL DRILLING AND OPEN TRENCHING AS SPECIFIED IN THESE PLANS AND THE GOVERNING SPECIFICATIONS. INCLUDES THE COST OF ALL SYSTEM COMPONENTS AND INSTALLATION INCLUDING, BUT NOT LIMITED TO WATER MAIN TAPPING, INSTALLATION OF METERS, RPZ BACKFLOW PREVENTORS, VALVES, IRRIGATION HEADS, NOZZLES, FITTINGS, PIPES, SLEEVES, CONTROLLERS, CLOCKS, BACKFILLING, DEBRIS REMOVAL, SYSTEM TESTING AND COORDINATION WITH THE CITIES OF MARGATE AND CORAL SPRINGS. THIS PAY ITEM ALSO INCLUDES THE COST OF ALL REQUIRED PERMITS NEEDED TO PERFORM THIS WORK. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR THE COST OF IMPACT FEES RELATED TO THE WATER METERS OR FOR THE COST OF (NORMAL USEAGE) OF WATER UTILIZED WITH THE SYSTEM. THIS PAY ITEM WILL ALSO INCLUDE THE COSTS FOR MAKING MINOR ADJUSTMENTS TO EXISTING IRRIGATION SYSTEMS AS DESCRIBED IN THE PLANS.

GENERAL NOTES:

1. THE LOCATIONS OF PLANTS, AS SHOWN ON THESE PLANS, ARE APPROXIMATE. THE FINAL LOCATIONS MAY BE ADJUSTED TO ACCOMMODATE UNFORSEEN FIELD CONDITIONS, TO COMPLY WITH SAFETY SETBACKS, OR AS OTHERWISE DIRECTED OR APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL FLAG ALL PROPOSED TREE AND PLANT BED LOCATIONS TO THE EXTENT REQUESTED BY THE ENGINEER AND FOR HIS OR HER APPROVAL PRIOR TO PLANTING.

2. ABOVE AND BELOW GROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK IN THE PROJECT AREA. IF ANY UTILITY CONFLICTS ARE DISCOVERED BY THE CONTRACTOR, THEY WILL IMMEDIATELY BE BROUGHT TO THE ENGINEER'S ATTENTION, WHO SHALL COORDINATE THE NECESSARY ADJUSTMENTS. IN THE CASE OF UTILITY CONFLICTS, THE LANDSCAPE WILL BE ADJUSTED, NOT THE UTILITY. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA, INC (1-800-432-4770) TWO (2) FULL WORKING DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON JOB SITE. REFER TO THE ROADWAY PLANS, GENERAL NOTES SHEET FOR A LIST OF KNOWN UTILITY PROVIDERS WITHIN THE PROJECT LIMITS.

3. ALL PLANTING IS WITHIN IRRIGATED AREAS, BUT THE IRRIGATION SYSTEM MAY NOT BE COMPLETELY OPERATIONAL, OR MAY NOT PROVIDE ADEQUATE COVERAGE TO ESTABLISH NEW PLANTINGS. THEREFORE, HAND WATERING IS REQUIRED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE HIS OR HER OWN WATERING SCHEDULE AND RATE TO ENSURE THE HEALTHY ESTABLISHMENT OF ALL PLANTS. ALL COSTS FOR HAND WATERING OF PLANTINGS SHALL BE INCLUDED IN THE UNIT COST OF THE PLANT MATERIAL. PLANTS THAT DIE, OR EXCESSIVELY SHOCK DUE TO LACK OF WATER, MUST BE REPLACED BY THE CONTRACTOR, AT NO COST TO THE DEPARTMENT. WATER FORCE FROM WATER TRUCK SHALL NOT BE APPLIED IN A MANNER WHICH WOULD DAMAGE PLANTS, NOR IN A MANNER WHICH WOULD REMOVE SOIL SAUCER RING OR MULCH AROUND EACH PLANT. ANY DAMAGE TO PLANT OR OTHER SURROUNDING ITEMS, EITHER BY WATER FORCE OR WATER TRUCK, IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE.

4. ALL NEW PLANTS WILL RECEIVE A PREMIXED, DRY GRANULAR FUNGI INOCULANT COMPOUND CONSISTING OF ENDO- AND ECTOMYCORRHIZAL FUNGI, BENEFICIAL BACTERIA, TRICHODERMA, ORGANIC MICROBIAL NUTRIENTS, AND A HORTICULTURAL GRADE GEL THAT IS MIXED IN THE BACKFILL AT PLANTING. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR APPLICATION METHODS AND RATES. ALL COSTS RELATED TO THIS TREATMENT WILL BE INCLUDED IN THE COST OF THE PLANT.

5. SABAL PALMS (SP) SHALL BE PLANTED IN STAGGERED GROUPINGS OF SIZES AS NOTED ON PLANT LIST. EQUAL QUANTITIES WILL GENERALLY BE PROVIDED FOR THE SMALL, MEDIUM, AND LARGE END OF THE RANGE NOTED, (IE. 10'-20' RANGE WILL MEAN 1/3 @ 10', 1/3 @ 14', 1/3 @ 20').

6. SIGHT TRIANGLES SHOWN IN THE PLANS ARE BASED ON A 40 MPH DESIGN SPEED, 6 LANE DIVIDED HIGHWAY, 22' OR LESS MEDIAN WIDTH, DISTANCE 'D' = 550' FROM RUTH COURT (APPROX. STA. 910) TO NW 15TH STREET (APPROX. STA. 1020).

SIGHT TRIANGLES SHOWN IN THE PLANS ARE BASED ON A 40 MPH DESIGN SPEED, 6 LANE DIVIDED HIGHWAY, 25' TO 64' MEDIAN WIDTH, DISTANCE 'D' = 410' FROM NW 15TH STREET (APPROX. STA. 1020) TO W COPANS ROAD FOR THE NORTHBOUND TRAVEL LANES.

SIGHT TRIANGLES SHOWN IN THE PLANS ARE BASED ON A 40 MPH DESIGN SPEED, 6 LANE DIVIDED HIGHWAY, 25' TO 64' MEDIAN WIDTH, DISTANCE 'D' = 410' FROM NW 15TH STREET (APPROX. STA. 1020) TO COLONIAL DRIVE FOR THE SOUTHBOUND TRAVEL LANES.

SIGHT TRIANGLES SHOWN IN THE PLANS ARE BASED ON A 50 MPH DESIGN SPEED, 6 LANE DIVIDED HIGHWAY, 25' TO 64' MEDIAN WIDTH, DISTANCE 'D' = 510' FOR THE NORTHBOUND TRAVEL LANES NORTH OF W COPANS ROAD.

SIGHT TRIANGLES SHOWN IN THE PLANS ARE BASED ON A 50 MPH DESIGN SPEED, 6 LANE DIVIDED HIGHWAY, 25' TO 64' MEDIAN WIDTH, DISTANCE 'D' = 510' FOR THE SOUTHBOUND TRAVEL LANES NORTH OF COLONIAL DRIVE.

7. ALL LANDSCAPE BEDS SHALL RECEIVE A UNIFORMLY APPLIED MULCH MATERIAL TO A MINIMUM THICKNESS OF 3" OVER THE ENTIRE PLANT BED, (EXCEPT WITHIN 3" OF PLANT TRUNKS). INDIVIDUALLY PLANTED TREES (NOT WITHIN SHRUB BEDS) SHALL RECEIVE A 4' MULCH RING. MULCH TYPE TO BE GRADE 'A' RECYCLED MULCH. THE COST FOR MULCH WILL BE INCLUDED IN THE COST OF THE PLANT. AS A SPECIFIC REQUIREMENT, PLANT BEDS OF DWARF CROWN OF THORNS WILL ONLY REQUIRE A 2" DEPTH OF MULCH. A GRANULAR, PRE-EMERGENT HERBICIDE WILL ALSO BE USED IN ALL AREAS TO BE MULCHED PRIOR TO MULCHING. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR APPLICATION METHODS AND RATES.

8. WHERE EXISTING VEGETATION IS SHOWN TO REMAIN WITHIN THE MEDIANS, THERE WILL BE NO EXCAVATION FOR BED PREPARATION, OR SOIL ADDED WITHIN THE DRIPLINE OF THE CANOPY. ALL EXISTING VEGETATION DAMAGED OR DESTROYED BY THE CONTRACTOR, DURING CONSTRUCTION OR WARRANTY PERIOD, WILL BE REPLACED WITH LIKE SIZE AND TYPE TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S SOLE EXPENSE. ALL EXISTING VEGETATION WITHIN THE MEDIAN AREAS THAT IS NOT SHOWN OR LABELED ON THE LANDSCAPE PLANS SHALL BE REMOVED. THE COST FOR REMOVAL OF EXISTING VEGETATION WILL BE INCLUDED IN THE CLEARING & GRUBBING PAY ITEM (NO. 110-1-1). PRIOR TO STARTING WITH CLEARING & GRUBBING WORK, REVIEW ALL AREAS IN THE FIELD WITH THE ENGINEER TO VERIFY ALL VEGETATION TO BE REMOVED.

9. AREAS OF NEW SOD, WITHIN MEDIAN AREAS ONLY, ARE SHOWN ON THE LANDSCAPE PLANS . REFER TO THE ROADWAY PLANS FOR ALL SOD LOCATIONS AND QUANTITIES IN AREAS OUTSIDE THE MEDIANS. ALL AREAS LABELED "SOD" ON THE PLANS ARE NEW SOD. THE CONTRACTOR WILL BE RESPONSIBLE FOR RESTORING EXISTING SOD AREAS THAT WERE DAMAGED DURING THE PERFORMANCE OF HIS WORK AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER. PRIOR TO STARTING WORK, AND IN THE PRESENCE OF THE ENGINEER, THE CONTRACTOR WILL INSPECT ALL EXISTING SOD AREAS TO DOCUMENT THE CONDITION OF EXISTING SOD TO REMAIN. SOD AREAS WITH EXISTING DAMAGE, WHAT WERE PREVIOUSLY DOCUMENTED, WILL NOT NEED TO BE RESTORED BY THE CONTRACTOR.

10. THE CONTRACTOR SHALL INSURE THAT ALL PAVEMENT, STONES OVER 3", ROAD BASE AND OTHER MATERIAL THAT IS UNSUITABLE FOR PLANTING IS REMOVED FROM ALL PLANT BED AREAS, SOD AREAS AND ALL PLANT PIT AREAS.

11. ITEMS CALLED OUT IN THE PLANS TO BE REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR.

12. THE PAYMENT OF ALL ELECTRICAL OR WATER BILLS PERTAINING TO THE IRRIGATION WILL BE THE RESPONSIBILITY OF THE CITY OF MARGATE.

13. THIS PROJECT WILL BE MAINTAINED BY THE CITY OF MARGATE, CONTACT PERSON: EMILIO ESTABAN, (PH# 954-972-0828).

14. CERTAIN PALM TREE SPECIES ARE SPECIFIED WITH MAXIMUM CALIPER DIMENSIONS TO INSURE COMPLIANCE WITH INDEX #546 VISIBILITY CRITERIA. THESE MAXIMUM DIMENSIONS ARE ONLY REQUIRED WHEN THE TREE IS WITHIN THE LIMITS OF CLEAR SIGHT, AND WILL BE MEASURED FROM 2' TO 9.5' FROM ROADWAY GRADE.

15. THE SCOPE OF WORK UNDER THIS CONTRACT INCLUDES PROVIDING A GUARANTEE FOR ALL PLANT MATERIAL AND MAINTENANCE DURING THE ESTABLISHMENT PERIOD IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE SCOPE WILL NOT INCLUDE MAINTAINING ANY SOD OR ANY EXISTING VEGETATION DURING THE ESTABLISHMENT PERIOD. THIS MAINTENANCE WILL BE PROVIDED BY THE CITY OF MARGATE.

16. ALL INTERSECTIONS LABELED AS 'SIGNALIZED' ON THESE PLANS ARE FULLY SIGNALIZED 24 HOURS A DAY AND ARE NOT PLACED IN FLASHING MODE AS A PART OF THEIR NORMAL OPERATION.

17. PROPOSED MEDIAN AREAS THAT ARE CURRENTLY EXISTING PAVEMENT WILL HAVE EXISTING PAVEMENT AND ROAD BASE MATERIAL REMOVED TO A 2' DEPTH AND REPLACED WITH NEW LANDSCAPE SOIL. NEW REPLACEMENT SOIL WILL BE ADDED TO AN APPROXIMATE DEPTH OF 18". THE ESTIMATED QUANTITY OF NEW SOIL IS 1,089 CUBIC YARDS. THIS QUANTITY IS PROVIDED FOR ESTIMATION PURPOSES ONLY, THE CONTRACTOR SHALL DETERMINE THE ACTUAL QUANTITY REQUIRED TO PERFORM THE SOIL REPLACEMENT WORK IN ACCORDANCE WITH THE TECHNICAL SPECIAL PROVISIONS, (TSP'S). THE COST FOR REMOVAL OF EXISTING MATERIAL WILL BE INCLUDED IN THE CLEARING & GRUBBING PAY ITEM (NO. 110-1-1). THE COST FOR NEW SOIL WILL BE PAID FOR IN THE COST OF LANDSCAPE COMPLETE (LARGE PLANTS), PAY ITEM NUMBER 580-1-2.

18. SPECIAL BED PREPARATION PROCEDURES ARE REQUIRED FOR ALL LANDSCAPE AREAS WITHIN THE MEDIANS BETWEEN MARGATE COURT, (STATION 955), AND MARGATE BLVD, (STATION 981); AND THE AREA BETWEEN COLONIAL DRIVE, (STATION 1065), AND NW 31ST STREET, (STATION 1088). THESE PROCEDURES INCLUDE THE REMOVAL OF THE TOP ELEVEN INCHES (11") OF EXISTING SOIL, (MEASURED FROM TOP OF CURB), AND REPLACE WITH SIX INCHES (6") OF NEW LANDSCAPE SOIL. THE NEW SOIL WILL MEET THE REQUIREMENTS SPECIFIED IN THE TECHNICAL SPECIAL PROVISIONS FOR LANDSCAPE SOIL REPLACEMENT. THE ESTIMATED QUANTITY OF NEW SOIL IS 287 CUBIC YARDS. THIS QUANTITY IS PROVIDED FOR ESTIMATION PURPOSES ONLY, THE CONTRACTOR SHALL DETERMINE THE ACTUAL QUANTITY REQUIRED. THIS NEW SOIL WILL ALSO BE MIXED WITH INTO THE BACKFILL FOR THE NEW PLANTS. THERE WILL BE NO EXCAVATION OF EXISTING SOIL WITHIN THE DRIPLINE OF EXISTING VEGETATION TO REMAIN. THE COST FOR REMOVAL OF EXISTING MATERIAL WILL BE INCLUDED IN THE CLEARING & GRUBBING PAY ITEM (NO. 110-1-1). THE COST FOR NEW SOIL WILL BE PAID FOR IN THE COST OF LANDSCAPE COMPLETE (LARGE PLANTS), PAY ITEM NUMBER 580-1-2.

JULY 10 2009

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE GENERAL NOTES

SHEET NO. LD-7

PLANT LEGEND:

REFER TO PLANT LIST FOR BOTANICAL NAMES AND SPECIFICATIONS

(PEA) SOLITAIRE PALM

(PHM) MEDJOOL DATE PALM

(SP) SABAL PALM

(BS) GUMBO LIMBO

(LD) RIBBON PALM

(BM) BISMARCKIA PALM

(QV) LIVE OAK

EXISTING PLANT LEGEND:

EXISTING VEGETATION WITHIN THE MEDIANS THAT IS NOT SHOWN ON THE LANDSCAPE PLANS SHALL BE REMOVED. SEE GENERAL NOTE #8, SHEET LD-7.

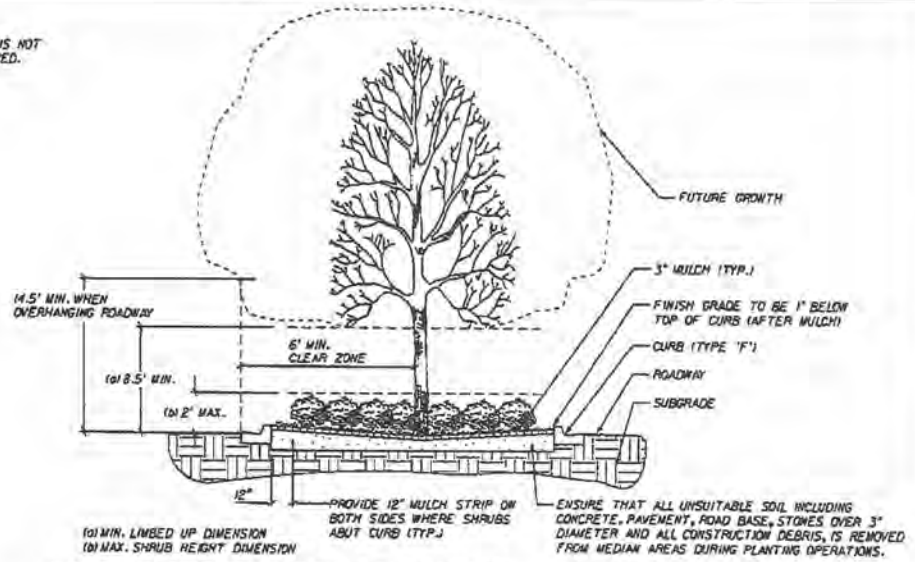
SHRUBS

CI	COCOPLUM
DU	DURANTA
IX	IXORA
PD	PODOCARPUS
RI	INDIAN HAWTHORNE
SAV	VAR. SCHEFFLERA
TRF	FL. GAMA GRASS
VS	VIBURNUM
ZM	CARDBOARD PALM

PALMS / TREES

CE	GREEN BUTTONWOOD
CES	SILVER BUTTONWOOD
NOS	OLEANDER STANDARD
PE	SLASH PINE
PHM	MEDJOOL DATE PALM
PR	PYGMY DATE PALM
QV	LIVE OAK
SM	MAHOGANY
SP	SABAL PALM
WB	FOXTAIL PALM
WR	WASHINGTONIA PALM

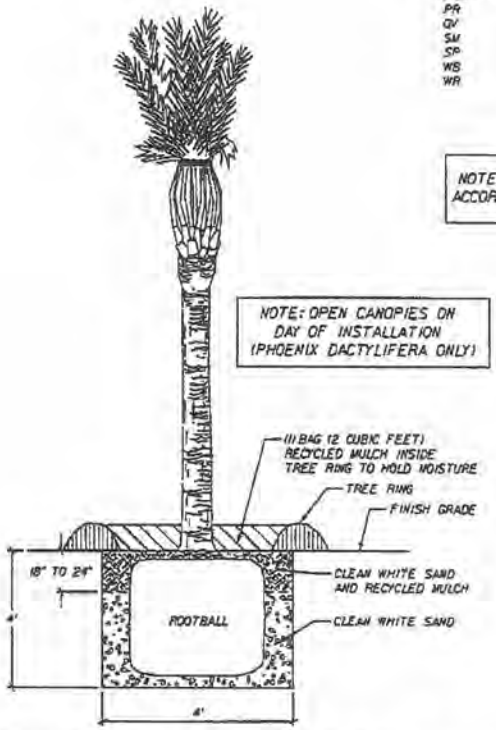
NOTE: ALL STAKING TO BE IN ACCORDANCE WITH INDEX #544



TYP. MEDIAN SECTION 1 - (WITHIN SIGHT TRIANGLE)

NOT TO SCALE

NOTE: OPEN CANOPIES ON DAY OF INSTALLATION (PHOENIX DACTYLIFERA ONLY)



DATE AND BISMARCKIA PALM - SPECIAL PLANTING DETAIL

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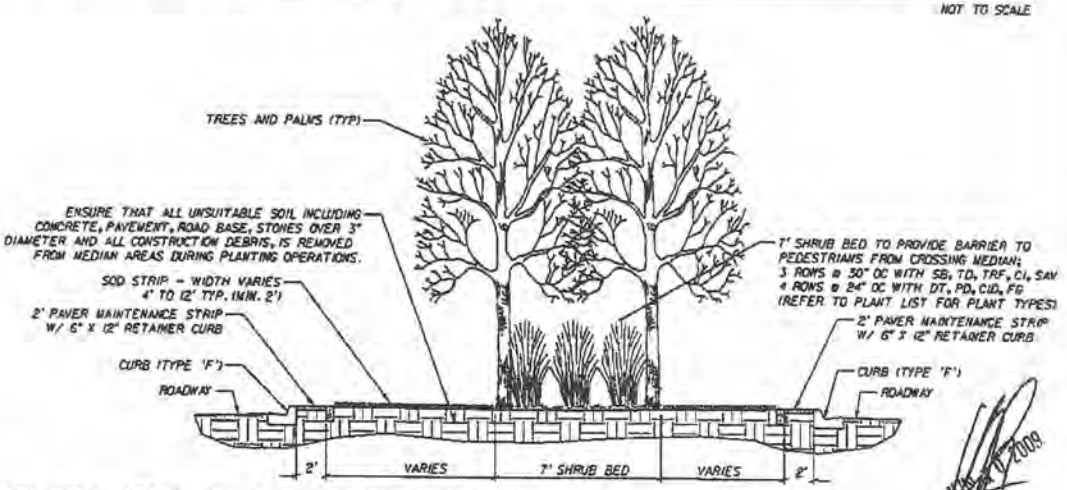

TYP. MEDIAN SECTION 2 - (OUTSIDE OF SIGHT TRIANGLE)

NOT TO SCALE

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Landscape Architect of Record: Robert L. Cotleur, FLA# 0657
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6134 Commerce Lane Suite 1
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561-747-6336 Fax 561-747-1377
Corp. & Auth. LC-0000239
Vendor No. 63-0270814

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE DETAILS

SHEET NO. LD-8

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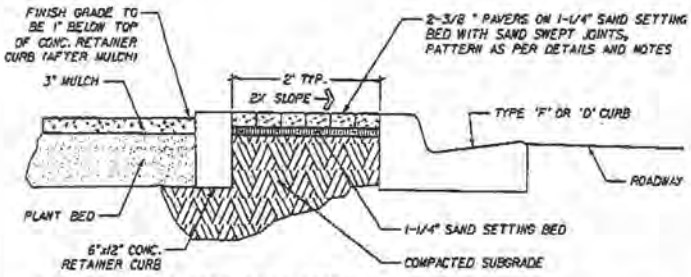
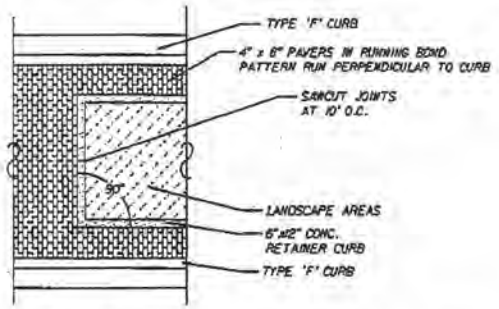


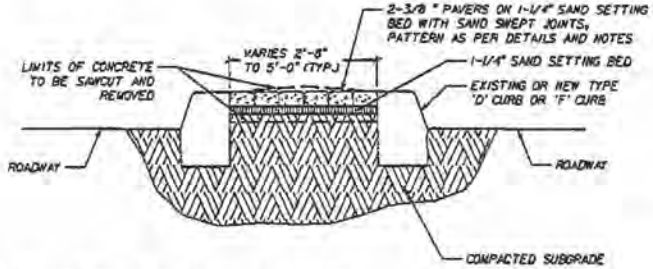
TYP. MAINTENANCE STRIP PAVER SECTION

NOT TO SCALE



TYP. PAVER PLAN

NOT TO SCALE



TYP. PAVER DETAIL IN TRAFFIC SEPARATORS

NOT TO SCALE

NOTE: EXISTING SEPARATORS THAT ARE MONOLITHIC, TYPE 'N' WILL BE COMPLETELY REMOVED AND REPLACED WITH TYPE 'D' OR 'F' CURB. (SEE ROADWAY PLANS FOR LOCATIONS)

PAVER GENERAL NOTES:

THESE PAVER NOTES AND DETAILS ONLY APPLY TO PAVERS WITHIN MEDIAN AREAS.

1) PAVER WORK SHALL COMPLY WITH SECTION 526 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2008 EDITION

2) THE CONTRACTOR SHALL VISIT THE SITE TO ACQUAINT HIMSELF WITH EXISTING CONDITIONS AND INSURE THAT ALL RELATED WORK BY OTHER SUBCONTRACTORS HAS BEEN COMPLETED AND ACCEPTED BY THE ENGINEER. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE PROPOSED WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY BEFORE BEGINNING ANY WORK.

3) PROTECT ALL EXISTING SITE IMPROVEMENTS SPECIFIED TO REMAIN DURING ALL PHASES OF CONSTRUCTION. ANY SITE IMPROVEMENTS THAT ARE DAMAGED DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, WITH A NEW ITEM IDENTICAL TO THE DAMAGED ITEM.

4) REMOVE EXISTING VEGETATION TO INCLUDE, SOD, SHRUBS AND GROUNDCOVER, AND EXCAVATE SOIL TO APPROXIMATELY 4" BELOW TOP OF CURB BEFORE BEGINNING WORK. LEVEL AND COMPACT SUBGRADE AND PREPARE FOR PAVERS. ALL DEBRIS RESULTING FROM EXCAVATION SHALL BE REMOVED FROM THE SITE AND DISPOSED IN A LEGAL LANDFILL OR DUMPING SITE. STOCK PILING AREAS MUST BE APPROVED BY THE ENGINEER.

5) VERIFY THAT ALL IRRIGATION SYSTEM WORK HAS BEEN COMPLETED AND THAT SLEEVES, AS NECESSARY, ARE INSTALLED AS PER PLANS BEFORE BEGINNING WORK.

6) INSTALL SOLID INTERLOCKING PAVERS, ASTM DESIGNATION C936-82 MANUFACTURED BY:

1) PAVER SYSTEMS
7157 INTERPACE RD.
WEST PALM BEACH, FL 33407

2) APPROVED EQUAL

A) PAVER TYPE IS 'HOLLAND STONE' SET IN A RUNNING BOND PATTERN AS SHOWN IN DETAILS. PAVER COLOR SHALL BE SOLID AND MATCH EXACTLY THE STANDARD COLOR MIX "HARVEST BLEND" AS MANUFACTURED BY PAVER SYSTEMS, INC. SUBMIT TYPICAL PAVER SAMPLES TO THE ENGINEER AND CITY OF MARGATE REPRESENTATIVE TO OBTAIN DOCUMENTED APPROVAL BEFORE INSTALLING ANY PAVERS.

B) PAVERS SHALL BE INSTALLED ON A SAND LEVELING BED OVER SUBGRADE COMPACTED TO OF 98% MAX. DENSITY AS PER AASHTO T-180. PAVER SHALL BE 4" x 8" x 2-3/8", WITH JOINTS LAID OUT IN A RUNNING BOND PATTERN, AS INDICATED ON THE PAVER DETAILS SHEET AND ADDITIONALLY AS FOLLOWS:

C) PAVER JOINTS SHALL BE SET AT 90 DEGREES AS SHOWN ON LAYOUT DETAILS, UNLESS OTHERWISE NOTED ON PLANS.

D) PAVERS SHALL BE PLACED ON BEDDING COURSE OF SHARP, NORMAL WEIGHT SCREENING OR CONCRETE SAND, TO A UNIFORM DEPTH NOT TO EXCEED 1-1/2".

E) PAVERS SHALL BE TAMPED WITH A MECHANICAL COMPACTOR UNTIL UNIFORMLY LEVEL OR TRUE TO SPECIFIED GRADES (SEE LAYOUT DETAIL). USE A LOW AMPLITUDE VIBRATOR CAPABLE OF 5,000 FOOT-POUNDS TO VIBRATE AND COMPACT PAVERS INTO THE BEDDING SAND. VIBRATE THE PAVERS, SWEEPING DRY SAND INTO THE JOINTS AND VIBRATING UNTIL FULL. DO NOT VIBRATE WITHIN 3' OF THE UNRESTRAINED EDGES OF THE PAVERS.

F) AS NECESSARY, CUT PAVERS WITH AN APPROVED CUTTER TO FIT ACCURATELY, NEATLY AND WITHOUT DAMAGED EDGES.

G) FILL JOINTS WITH SAND.

H) JOINTS BETWEEN PAVERS ON AVERAGE WILL BE BETWEEN 1/16" TO 3/16" WIDE; ALSO LEAVE A FINAL SURFACE ELEVATION OF PAVERS OF 1/8" TO 1/4" ABOVE ADJACENT DRAINAGE INLETS, CONCRETE COLLARS OR CHANNELS. DO NOT ALLOW FINAL SURFACE ELEVATIONS TO EXCEED 3/8" DEVIATION UNDER A 10' STRAIGHT EDGE.

I) AT THE END OF EACH DAY, ALL WORK WITHIN 3' OF LAYING FACE MUST BE LEFT FULLY COMPACTED WITH SAND FILLED JOINTS.

J) PAVERS SHALL UTILIZE EXISTING CURB FOR RETAINER ON ALL SIDES WHERE PAVERS ABUT CURB. A CONCRETE RETAINER CURB SET FLUSH WITH THE TOP OF PAVERS SHALL BE INSTALLED BETWEEN PAVERS AND ALL PLANT BEDS AS INDICATED ON THE PLANS. RETAINER CURB SHALL CONFORM TO SECTION 520 OF THE SPECIFICATIONS.

K) ALL AREAS OF INTERLOCKING PAVERS SHALL DRAIN AND AT NO TIME SHALL ANY WATER STAND ON PAVER AREAS.

L) LOCATIONS OF TRAFFIC SIGNS, SCHOOL SIGNS, AND GENERAL INFORMATION SIGNS SHALL NOT BE AFFECTED BY PROPOSED PAVER INSTALLATION. REPAIR OR REPLACE ANY SIGNS THAT ARE MOVED OR DAMAGED DURING INSTALLATION OF THIS WORK.

JUN 10 2009

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, PLA: #667
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Jupiter, Florida 33458
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Vendor No. 55-0870844

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	415878-1-52-01

PAVER DETAILS

SHEET NO. LD-9

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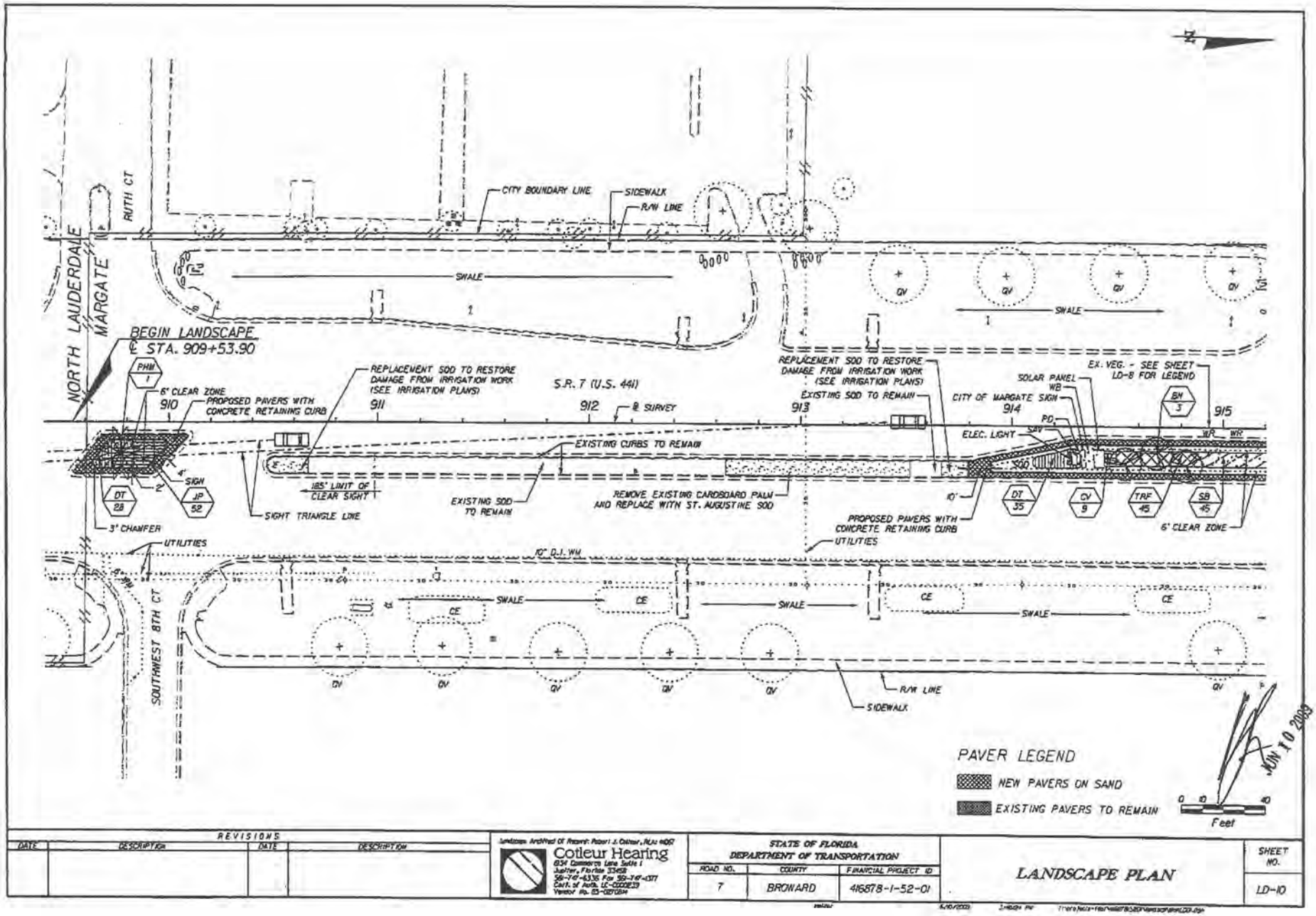
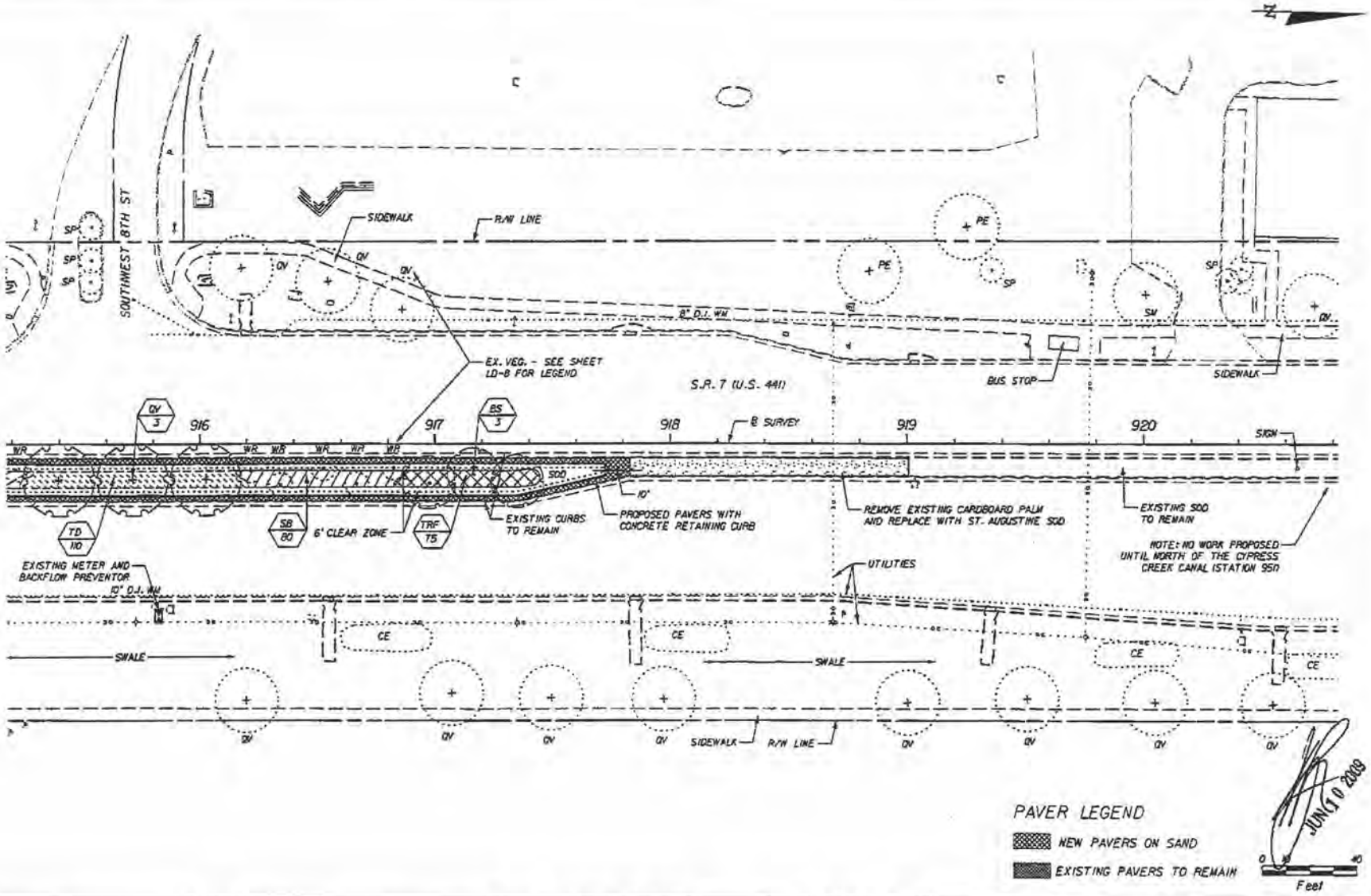


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotteur, RLA #667
Cotteur Hearing
634 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-0377
Cert. of Auth. LC-C000239
Vendor #: 65-0670084

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET NO.
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	LANDSCAPE PLAN	LD-10
7	BROWARD	416878-1-52-01		



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, PLA: #452
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634 Concorde Lane Suite I
Ashter, Florida 33458
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-11

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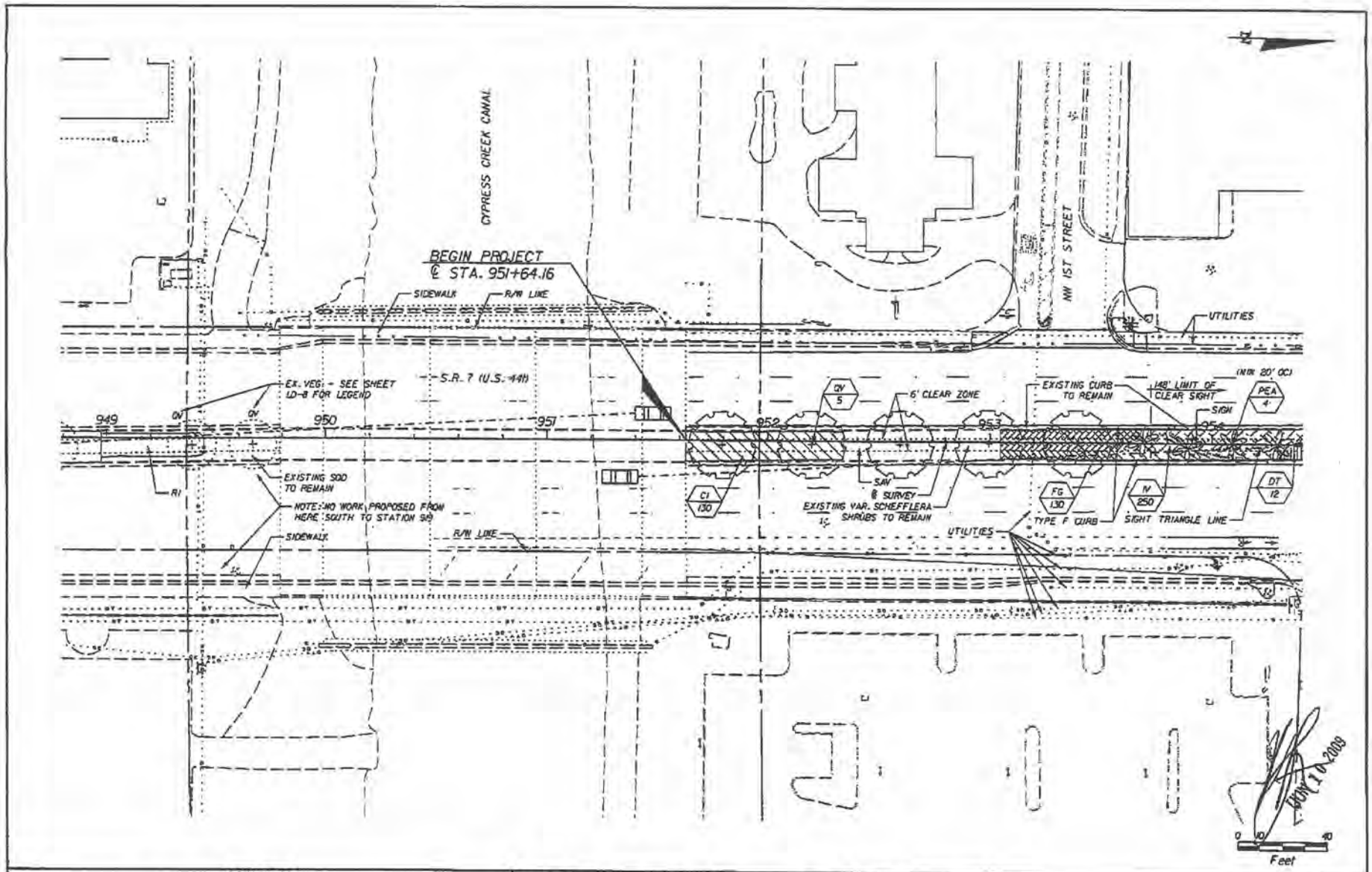

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, FLA: 0667
Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
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Cert. of Auth. LC-0000239
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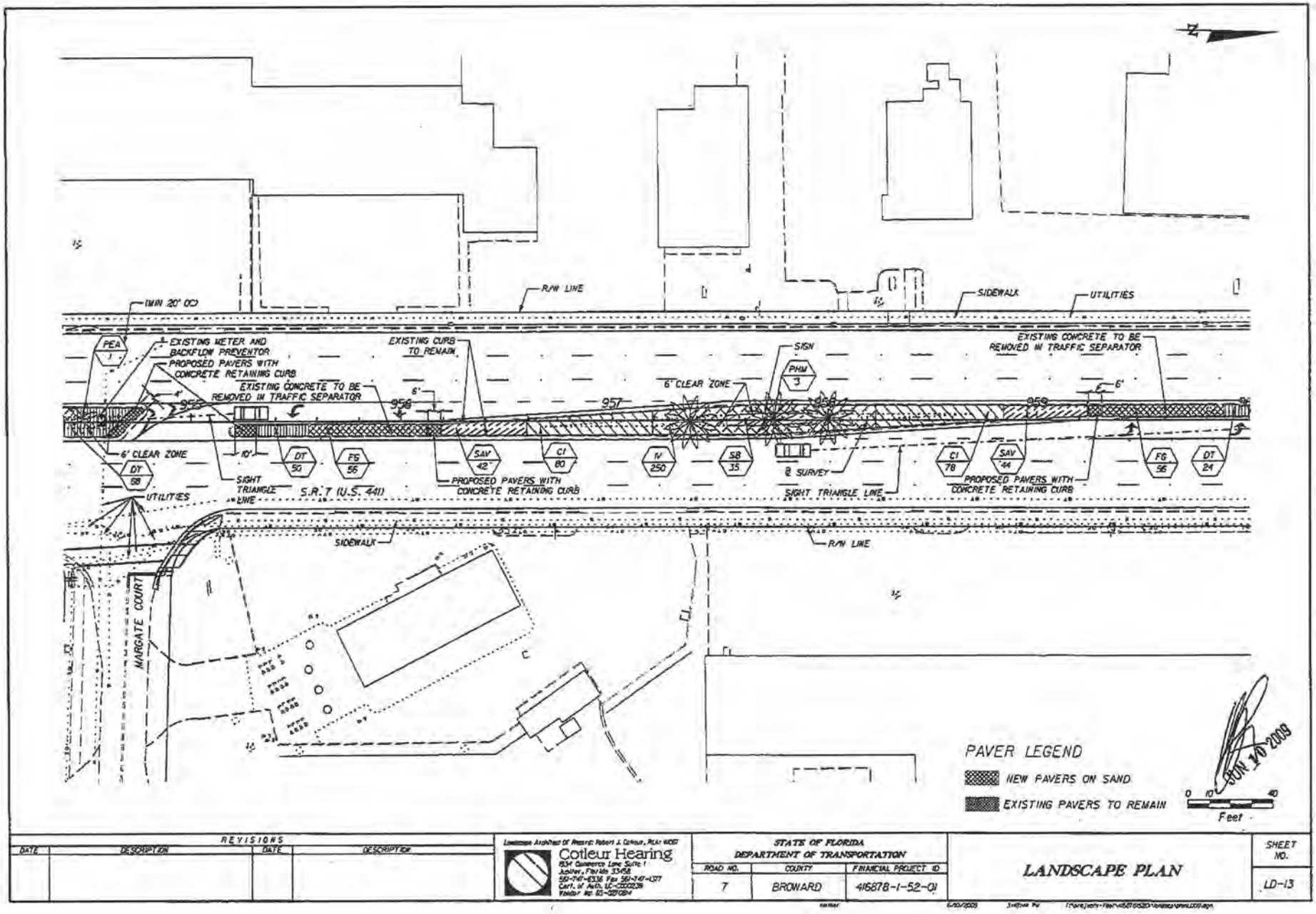
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	415878-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-12

Initial 5/10/2009



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, PLA: 6001
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1934 Commerce Lane Suite 1
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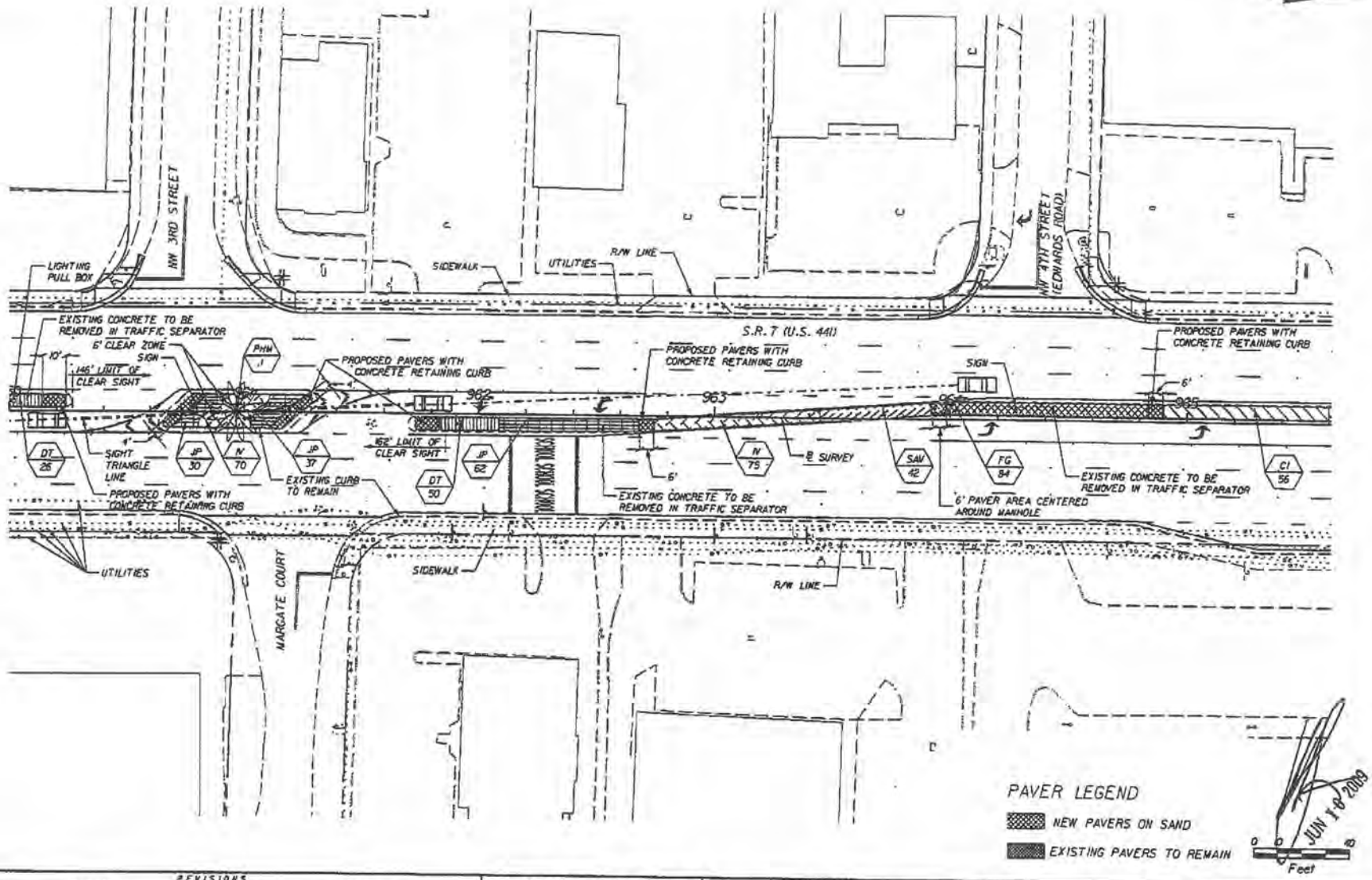
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-13



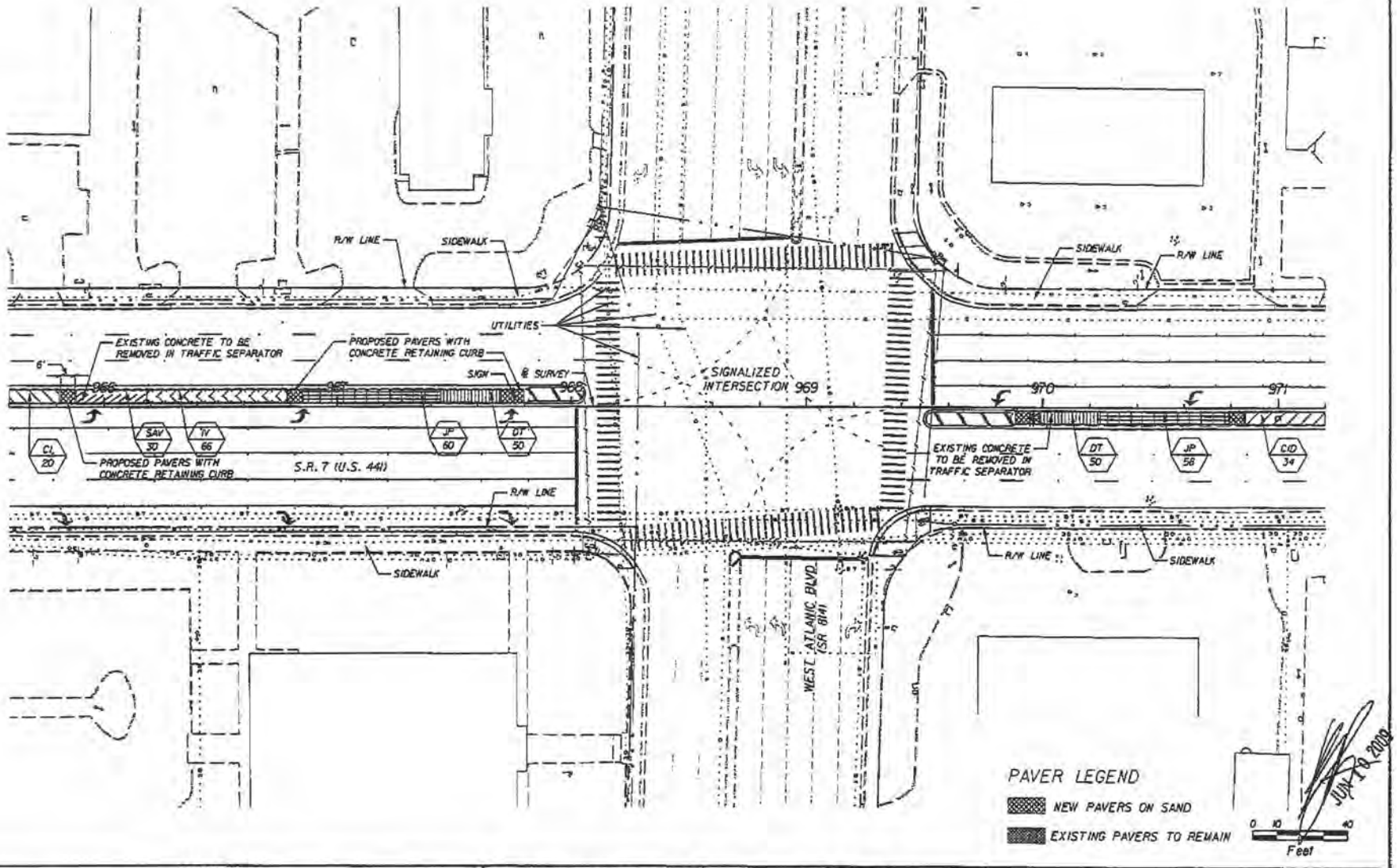
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, PLA: #667
Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000235
Vendor No. 65-0272284

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-14



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, RLA: #667
Cotleur Hearing
1534 Commerce Lake Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

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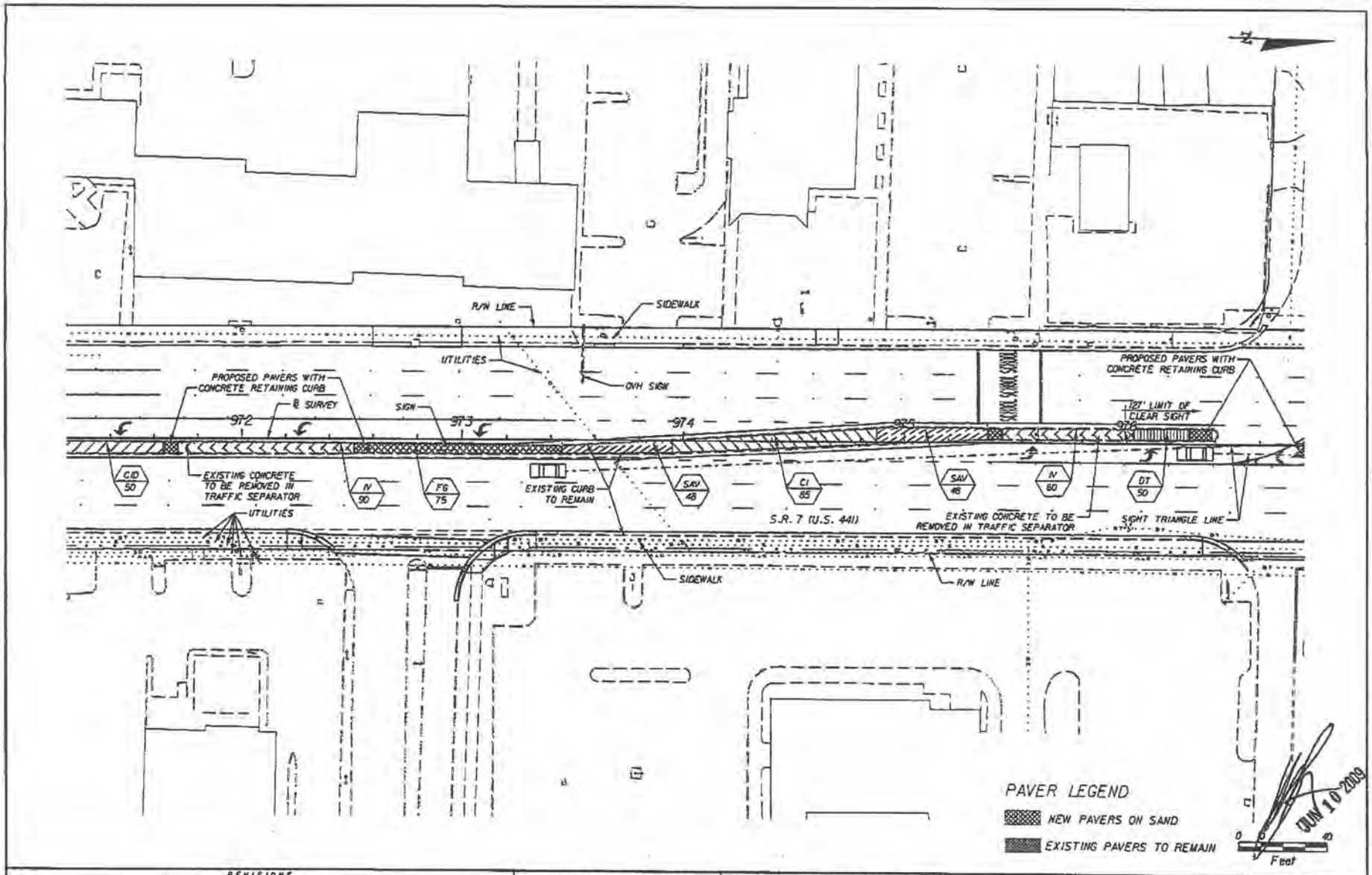

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, PLA: #667

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6134 Commerce Lake Suite 1
Jupiter, Florida 33458
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-16

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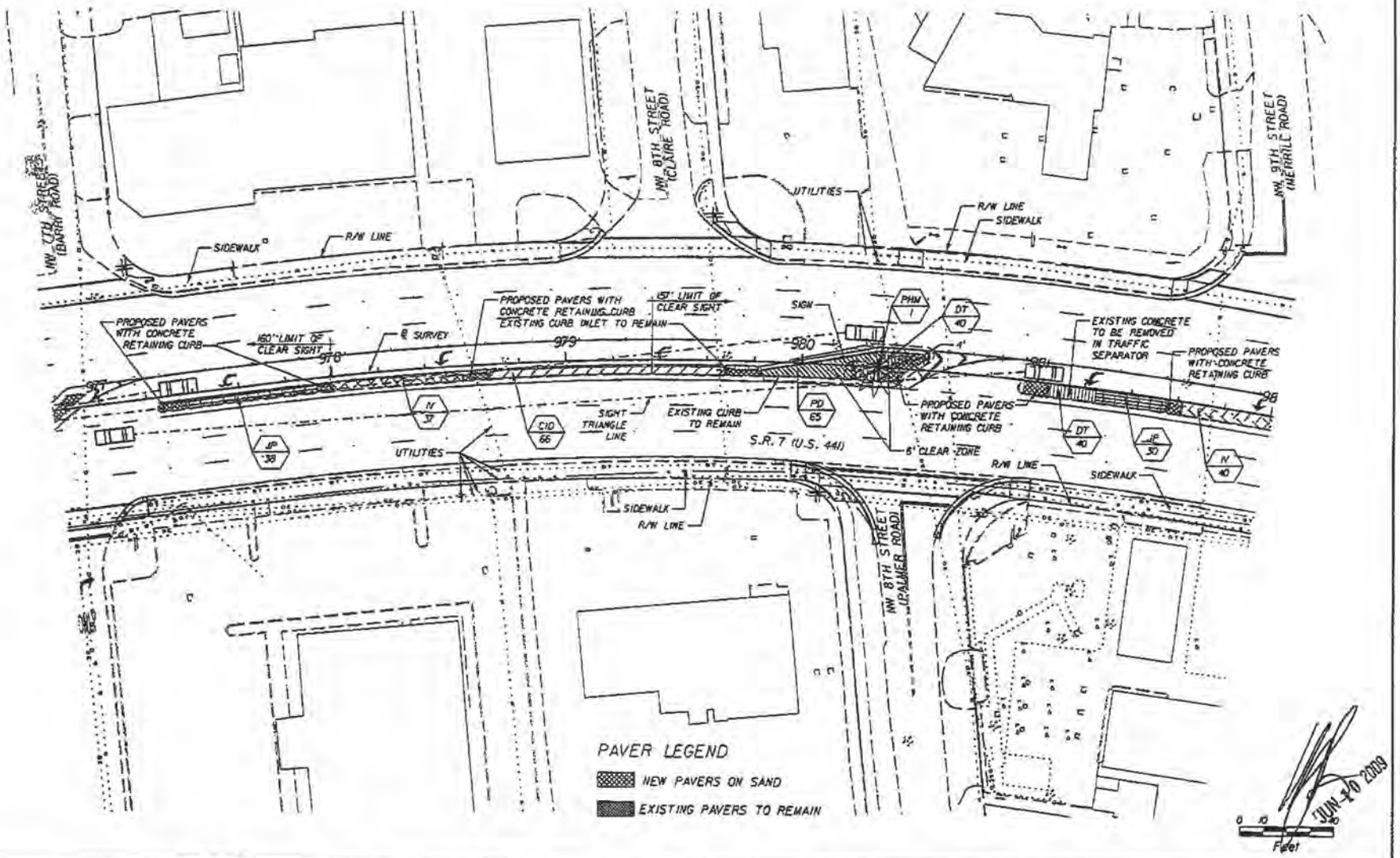

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, PLA: #667
Cotleur Hearing
651 Commerce Lane Suite 1
Jupiter, Florida 33458
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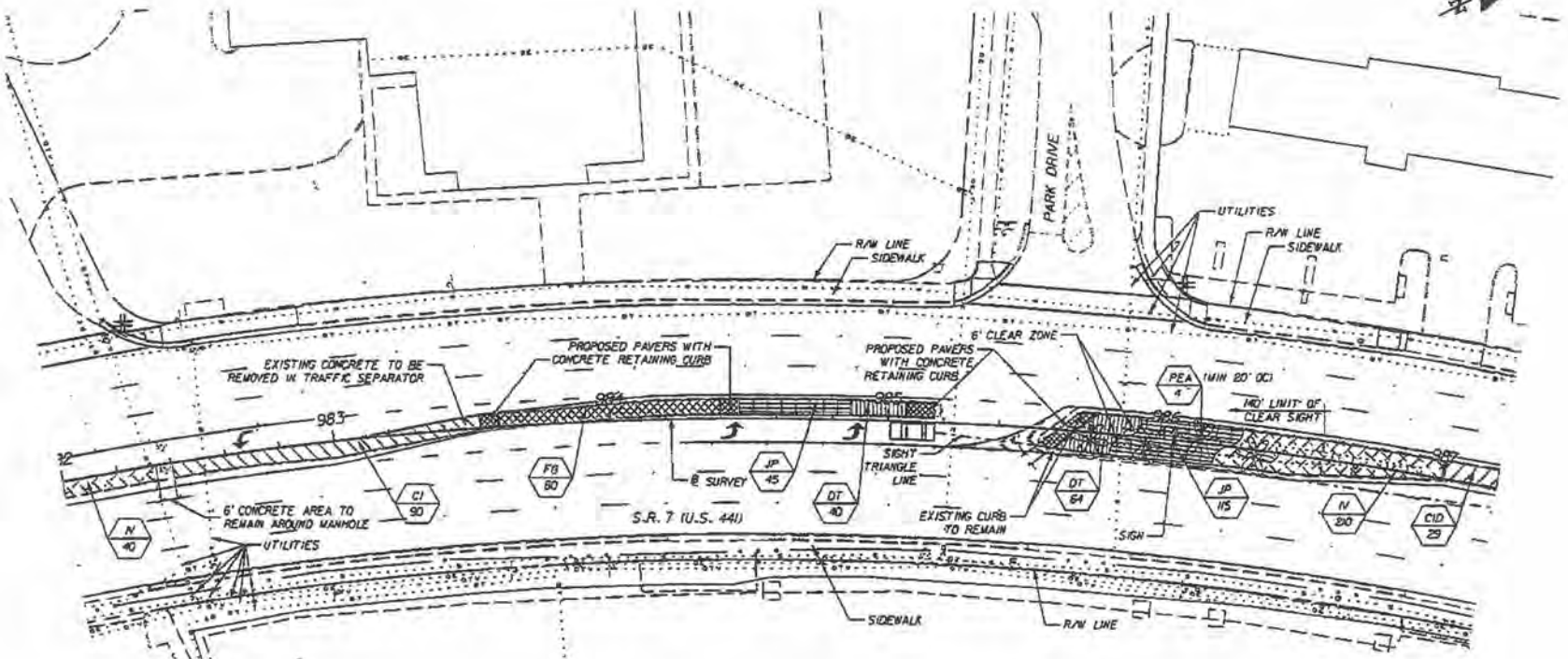
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-17



PAVER LEGEND

NEW PAVERS ON SAND

EXISTING PAVERS TO REMAIN

0 10 20 Feet

JUN 10 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, PLA: #1057
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

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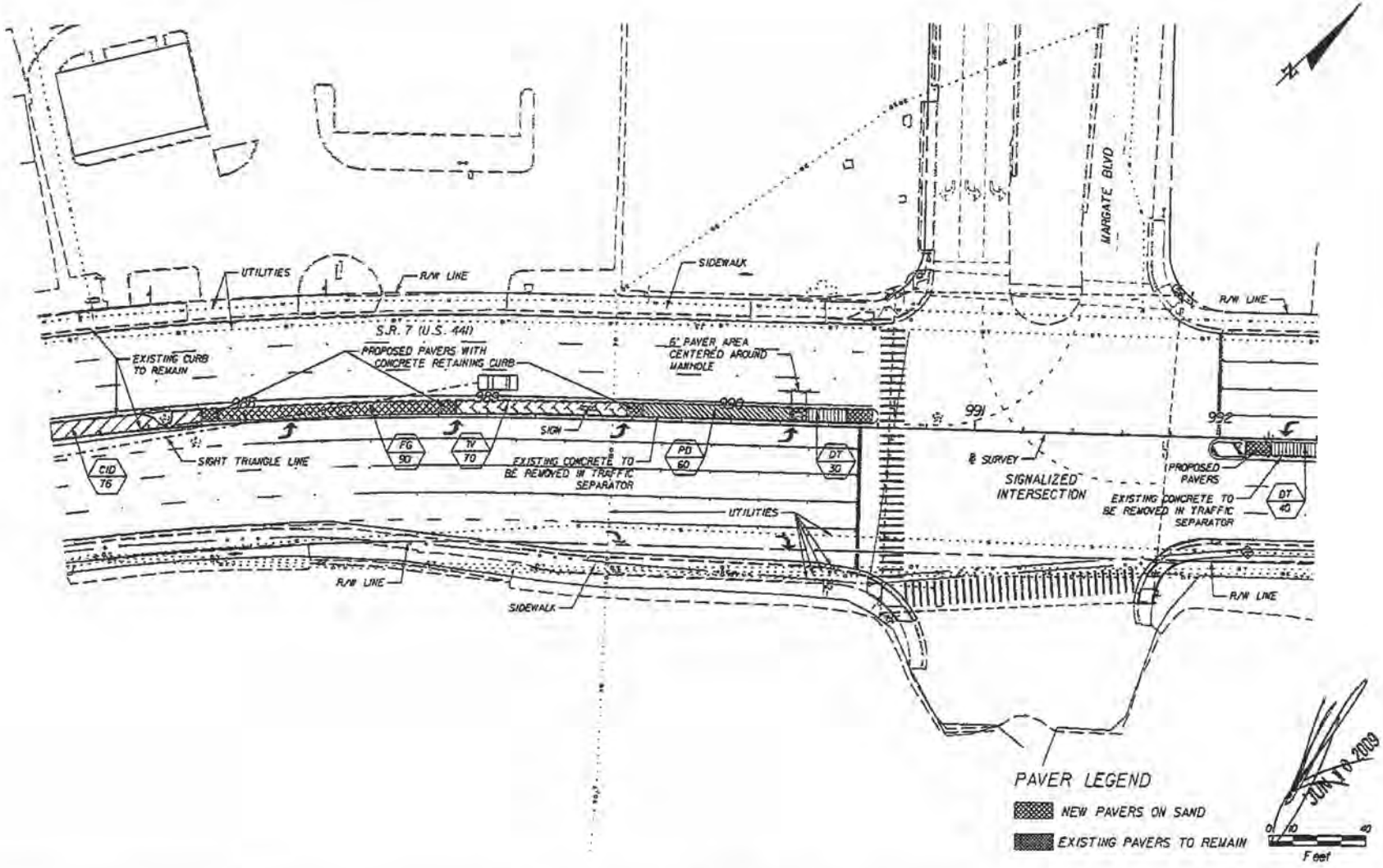

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert L. Cotleur, RLA: #667
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6534 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0000839
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-19

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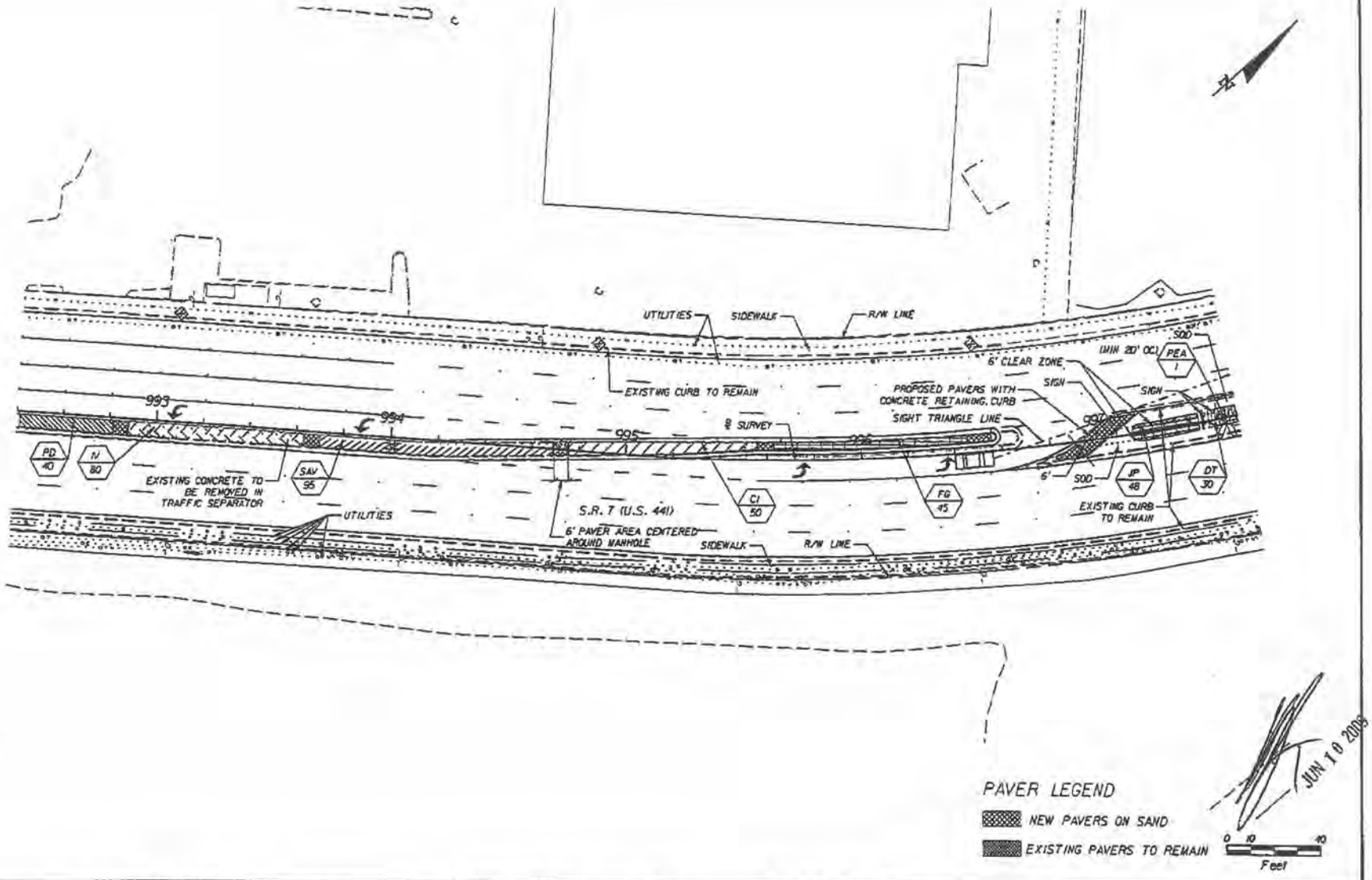

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Records: Robert L. Colleur, PLA: #668
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Jupiter, Florida 33458
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

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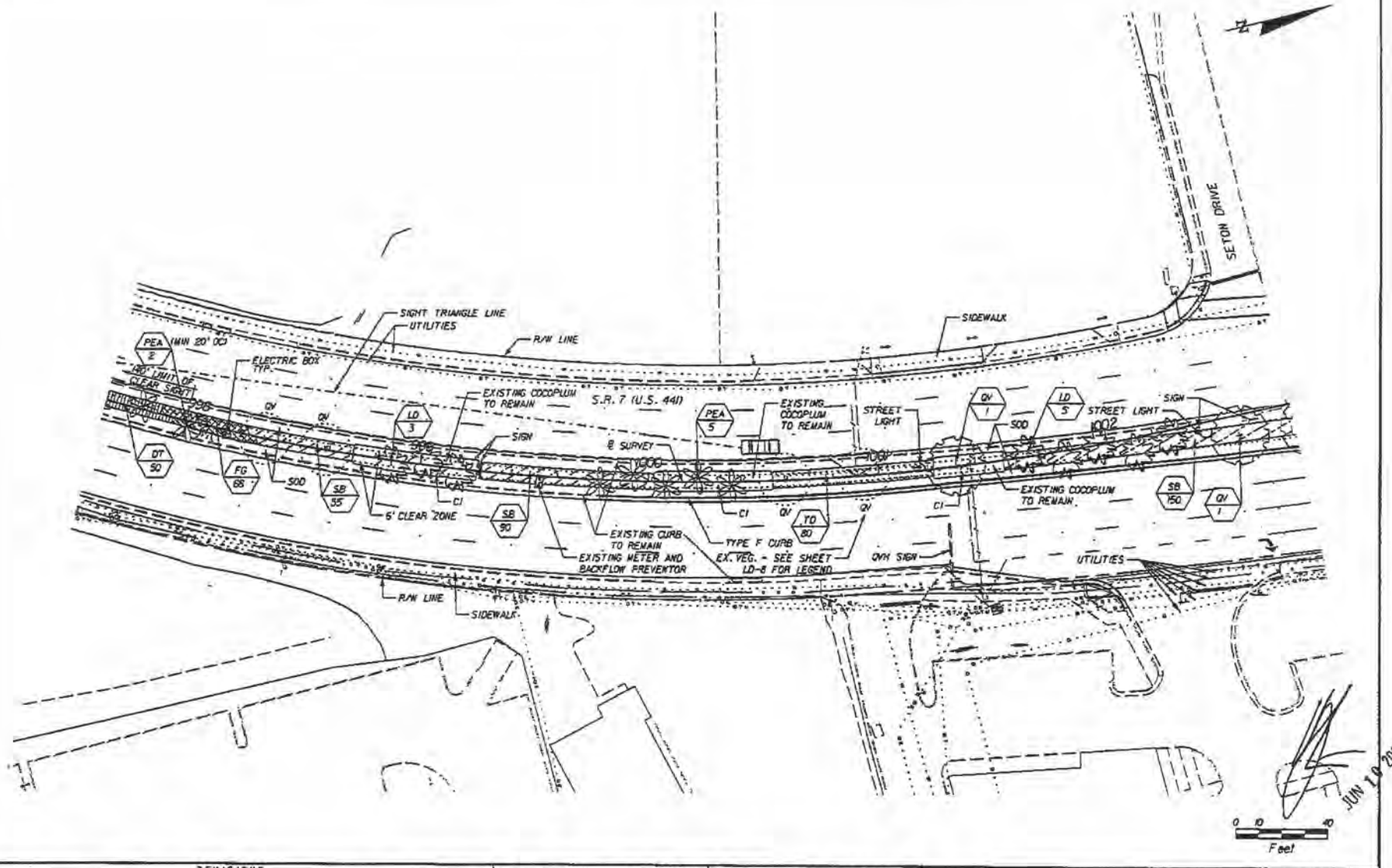

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, FLA. #667
Cotleur Hearing
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Vendor No. 59-2270884

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET NO.
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	LANDSCAPE PLAN	LD-21
7	BROWARD	416878-1-52-01		

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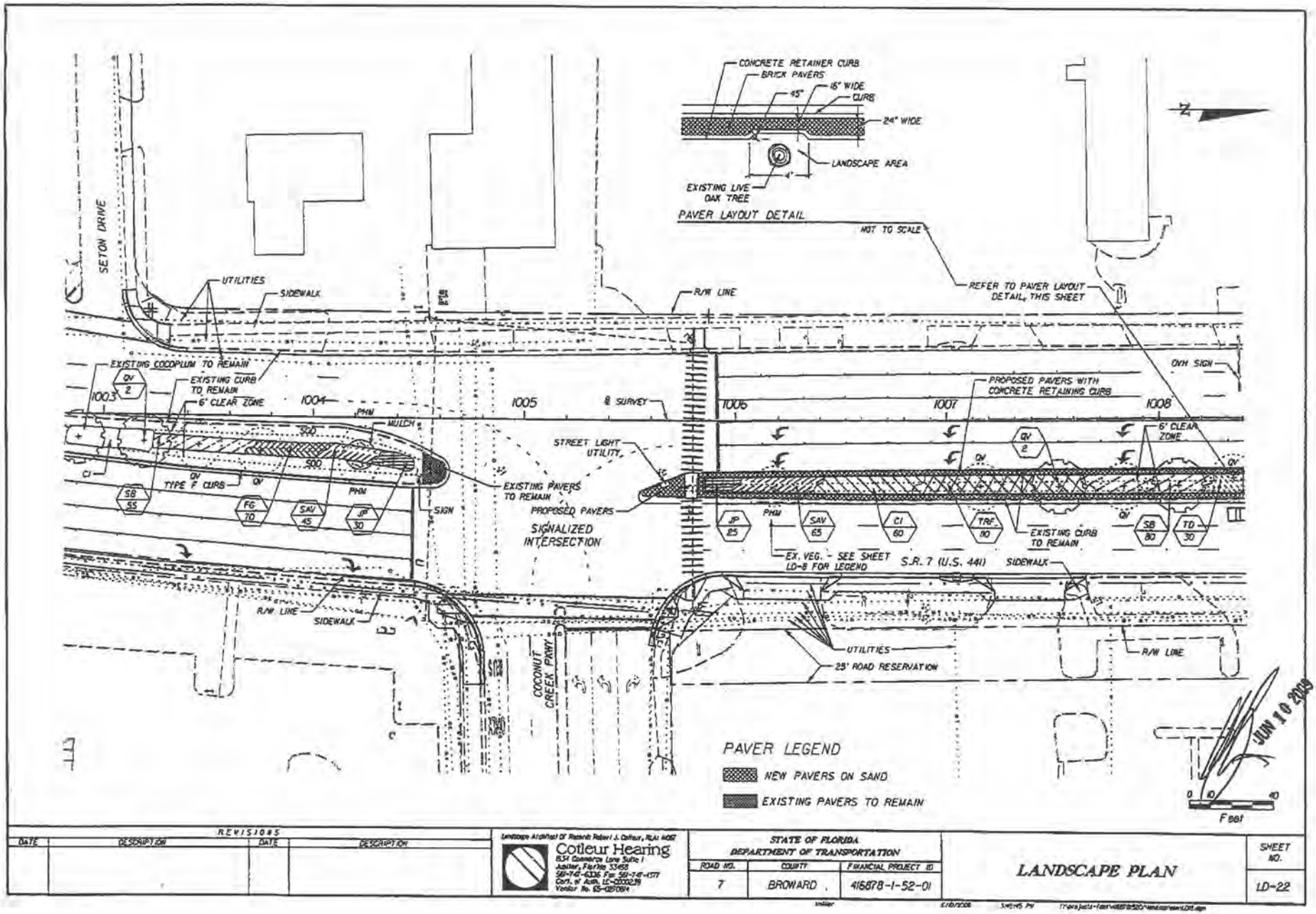

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, FLA. #667

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8311 Queensboro Lane Suite I
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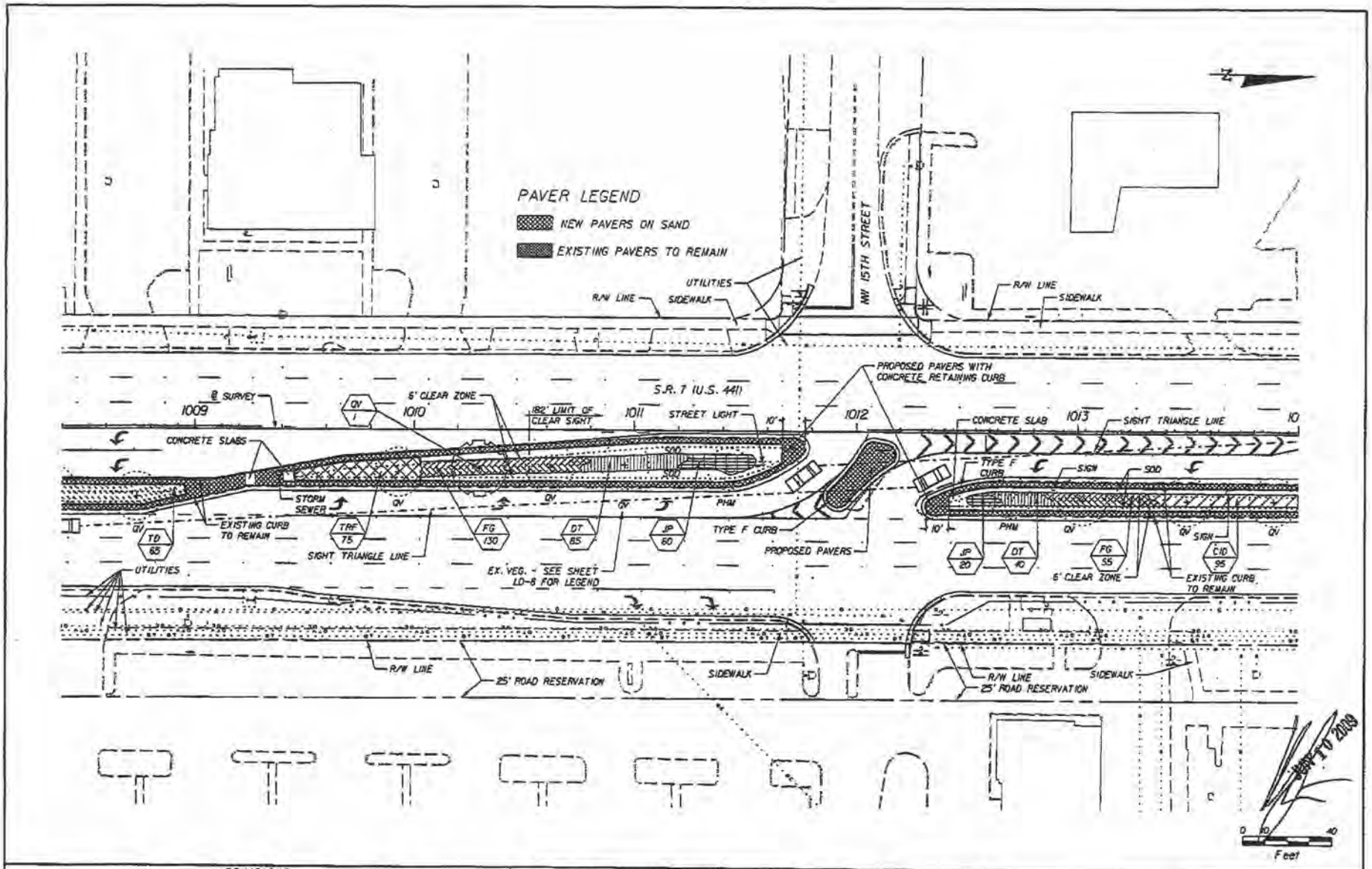
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	415678-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-22



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect of Record: Robert J. Cotleur, FLA: 0667
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-23

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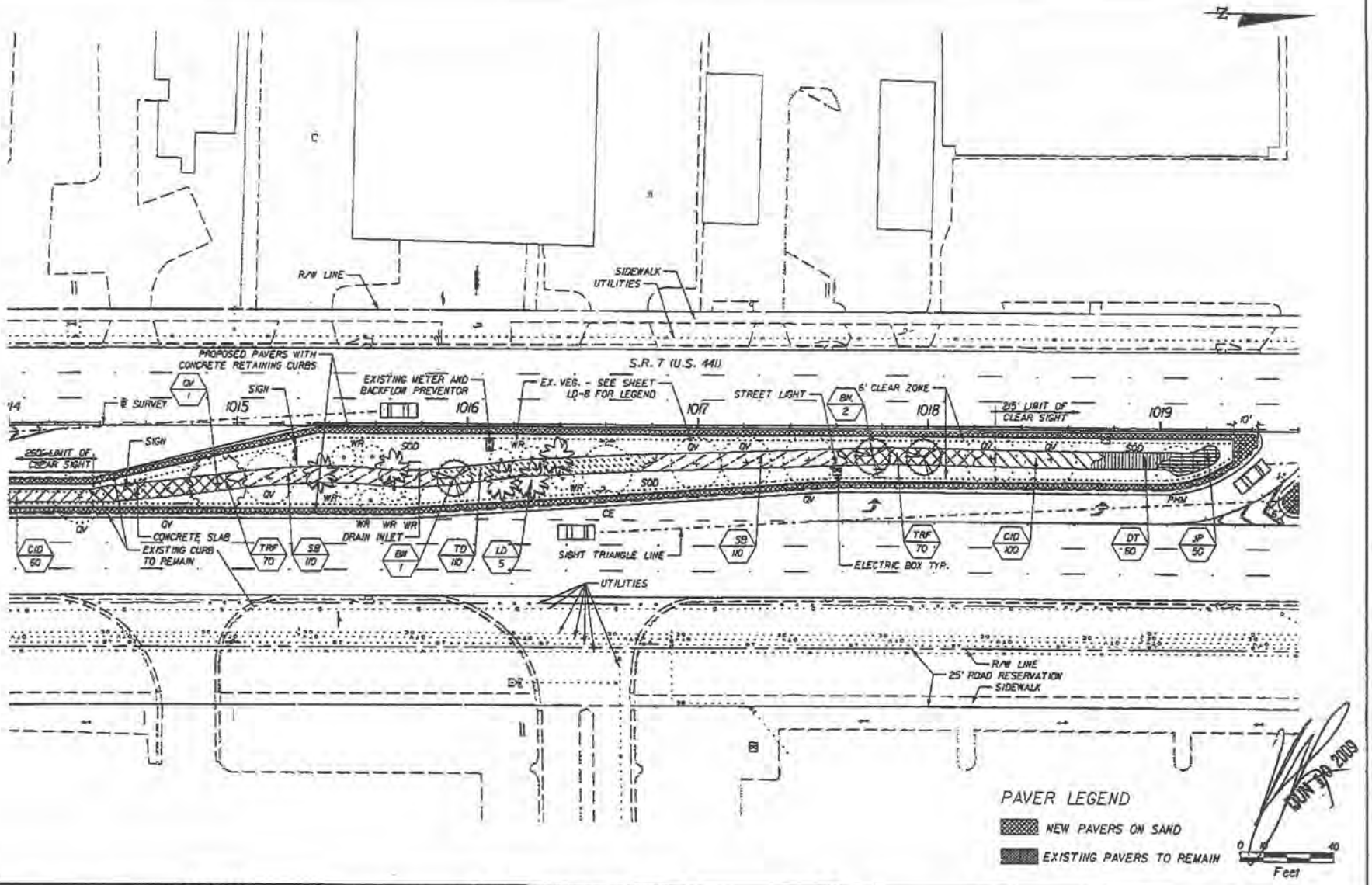

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, RLA: 667157
Cotleur Hearing
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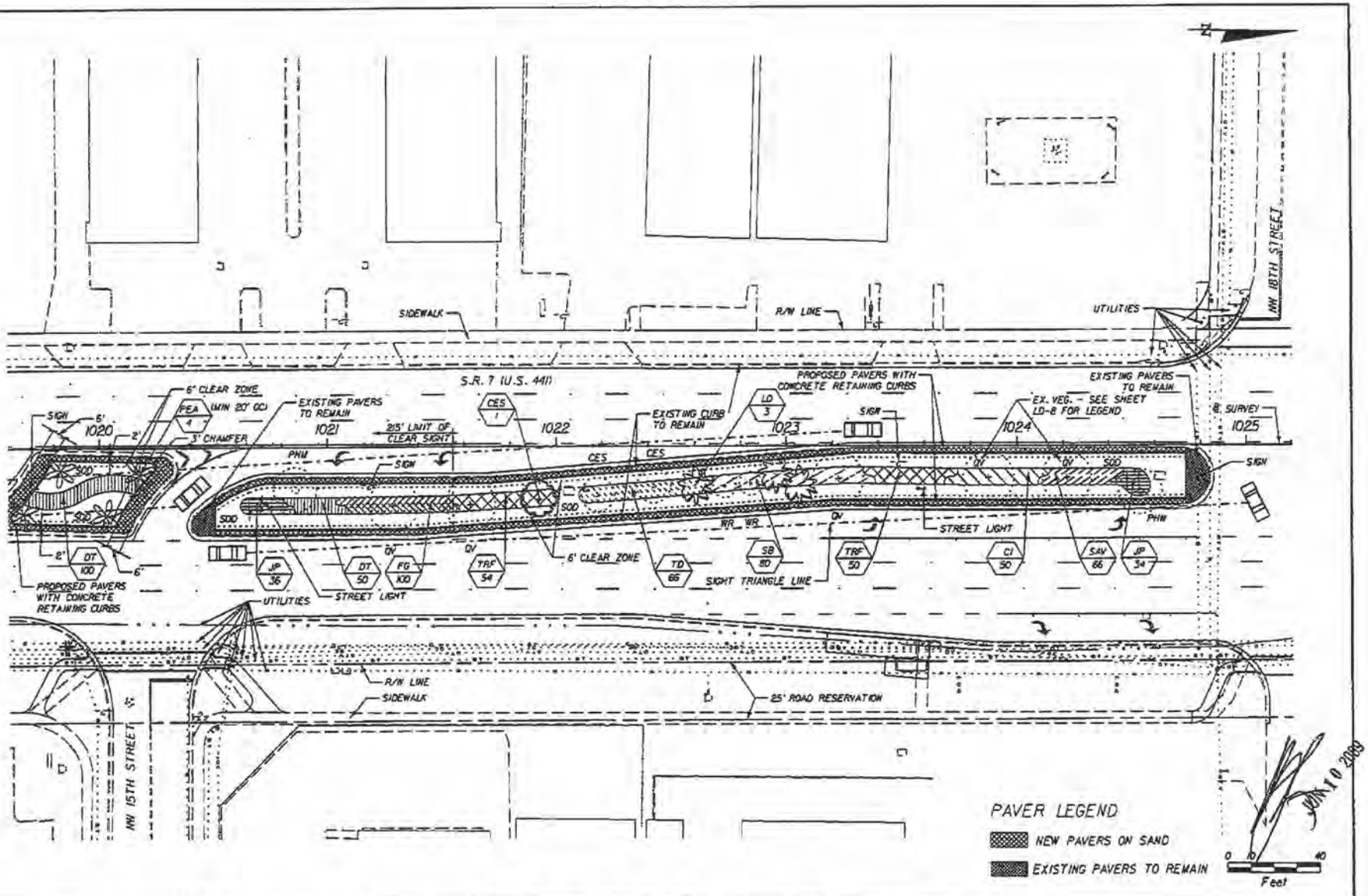
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0002839
Vendor No. 65-0270514

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET NO.
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	LANDSCAPE PLAN	LD-24
7	BROWARD	416878-1-52-01		



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect of Record: Robert J. Cotleur, R.L.A. #667
Cotleur Hearing
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Jupiter, Florida 33458
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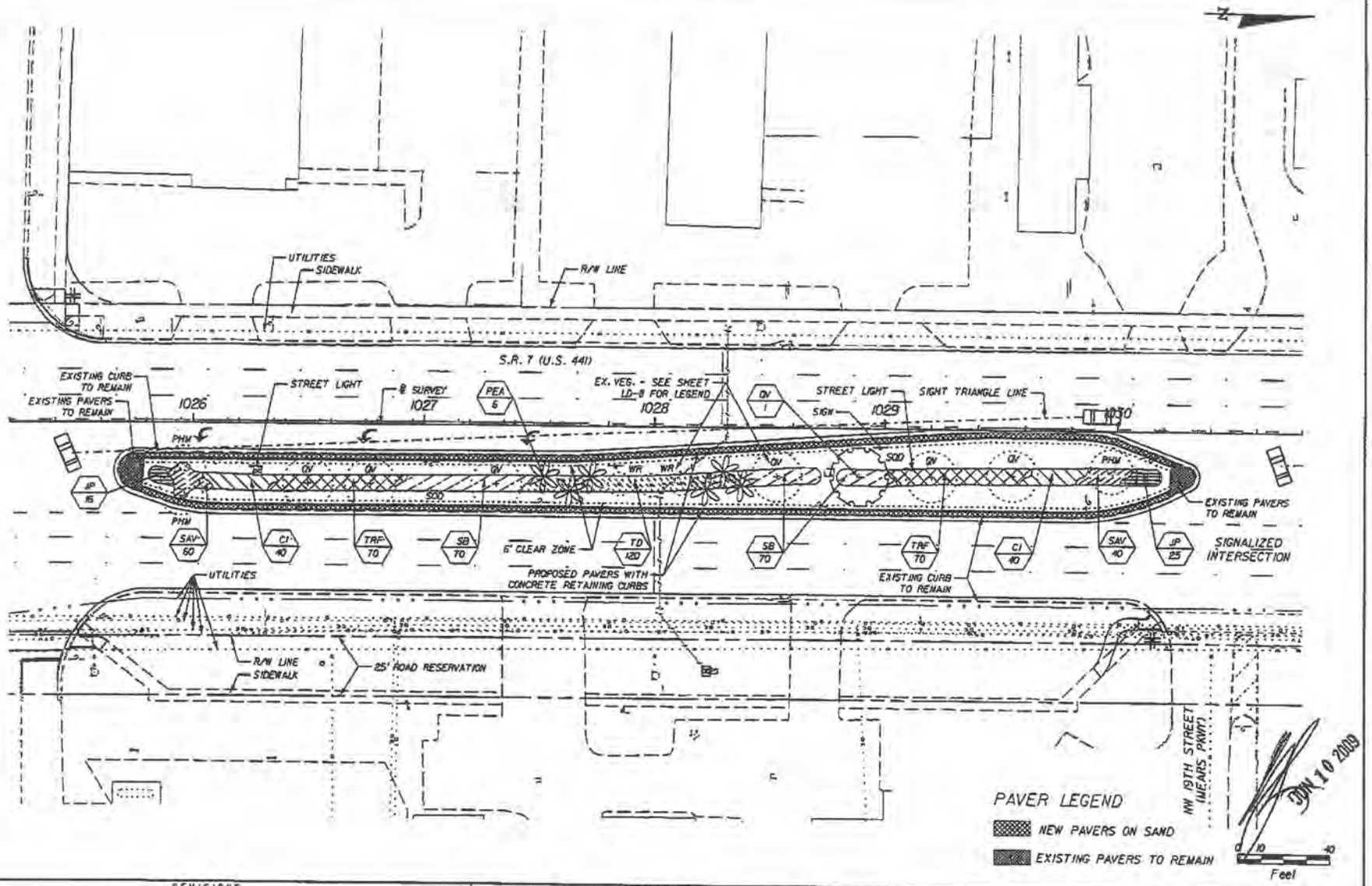
Vendor No. 65-0270814

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-25



JUN 10 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect of Record: Robert J. Cotleur, FLA.: #667
Cotleur Hearing
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Vendor No. 65-0870594

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-26

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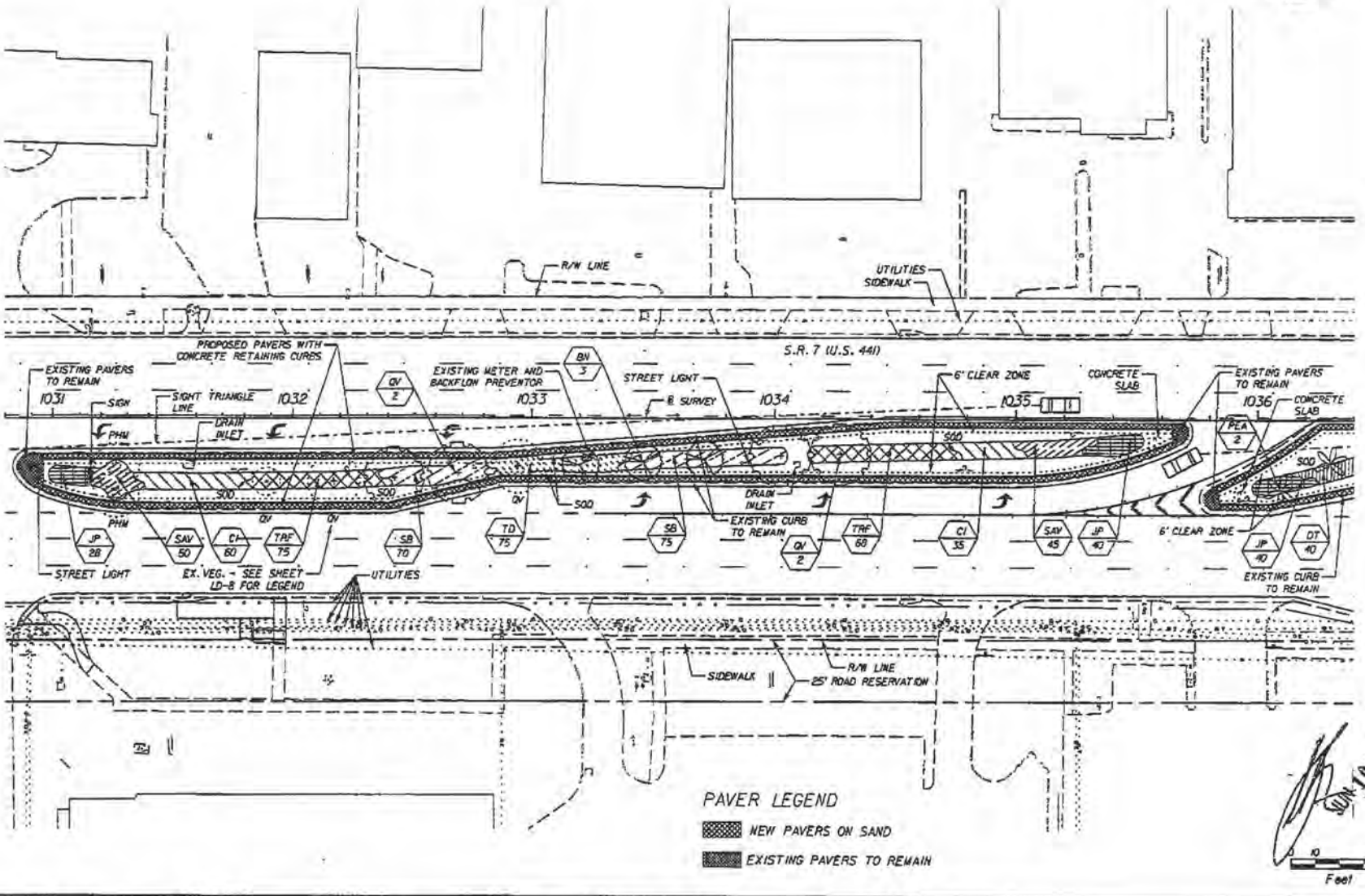

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, RLA: #400
Cotleur Hearing
634 Commerce Lane, Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0000275
Vendor No. 65-0870894

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-27

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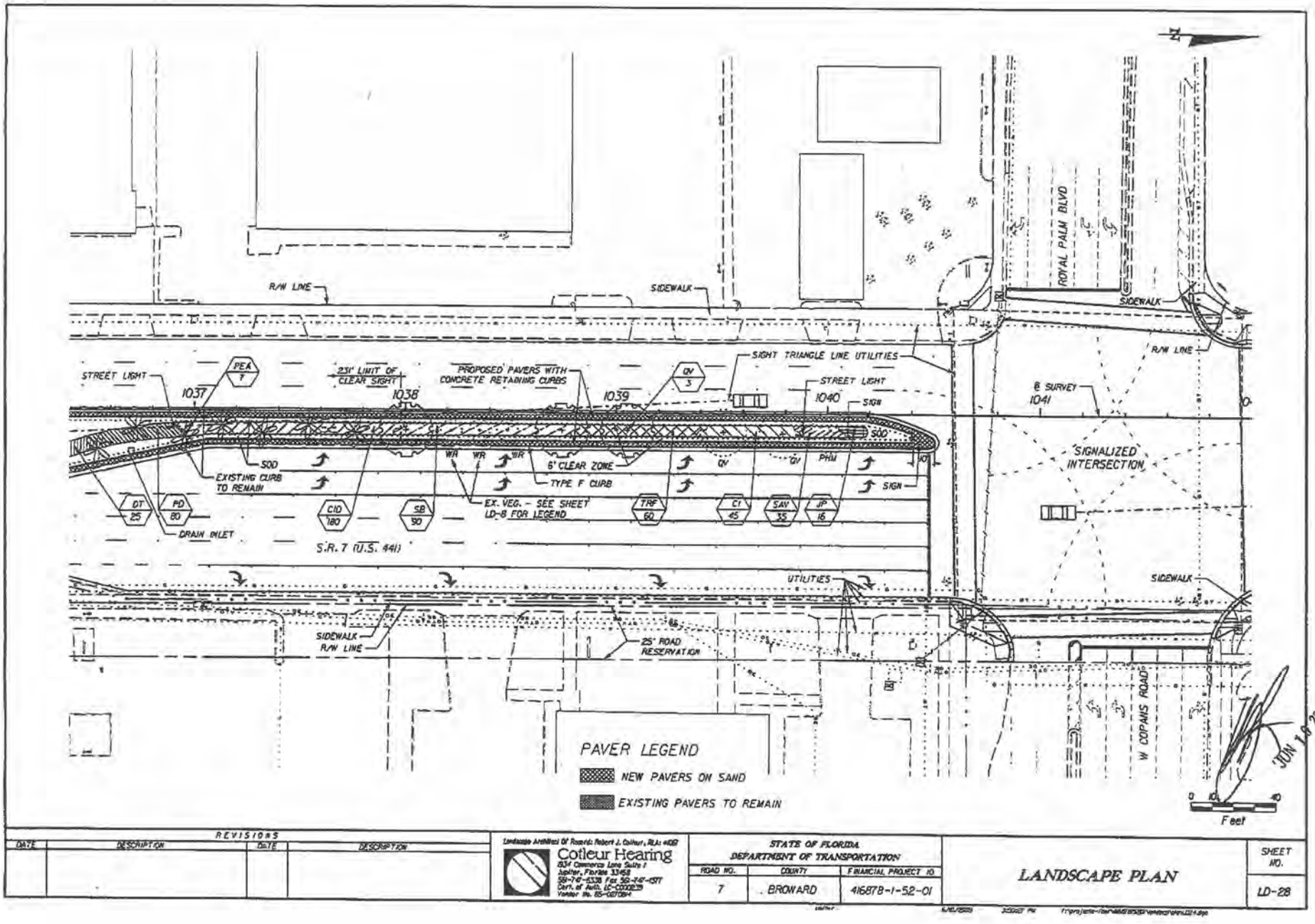


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

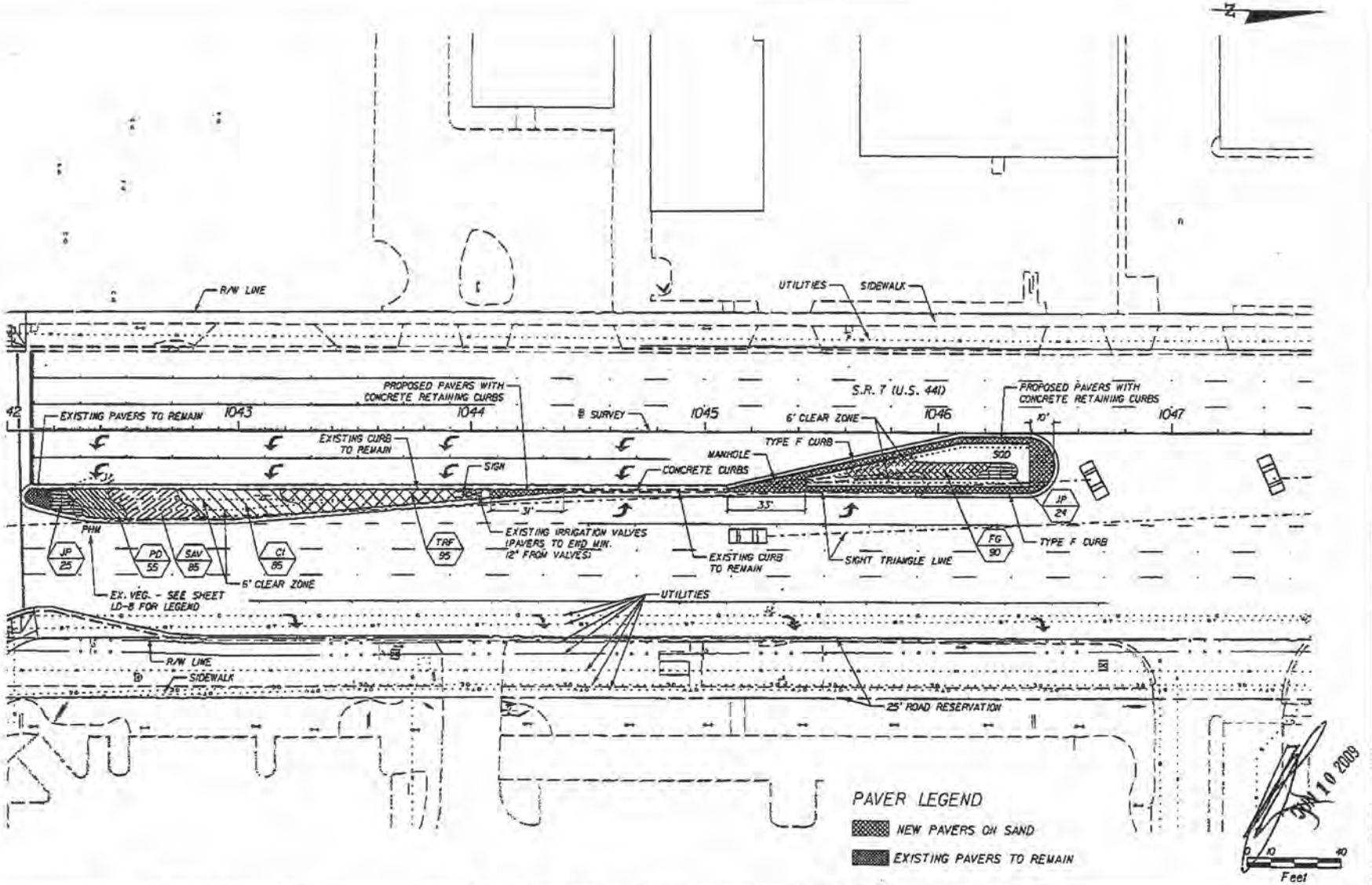
Landscape Architect Of Record: Robert J. Cotleur, FLA: #668
Cotleur Hearing
834 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000276
Vendor No. 65-0870814

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-28



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, RLA: #657
Cotleur Hearing
634 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-4336 Fax 561-747-4377
Cert. of Auth. LC-0000239
Vendor No. 65-0213194

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	415878-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-29

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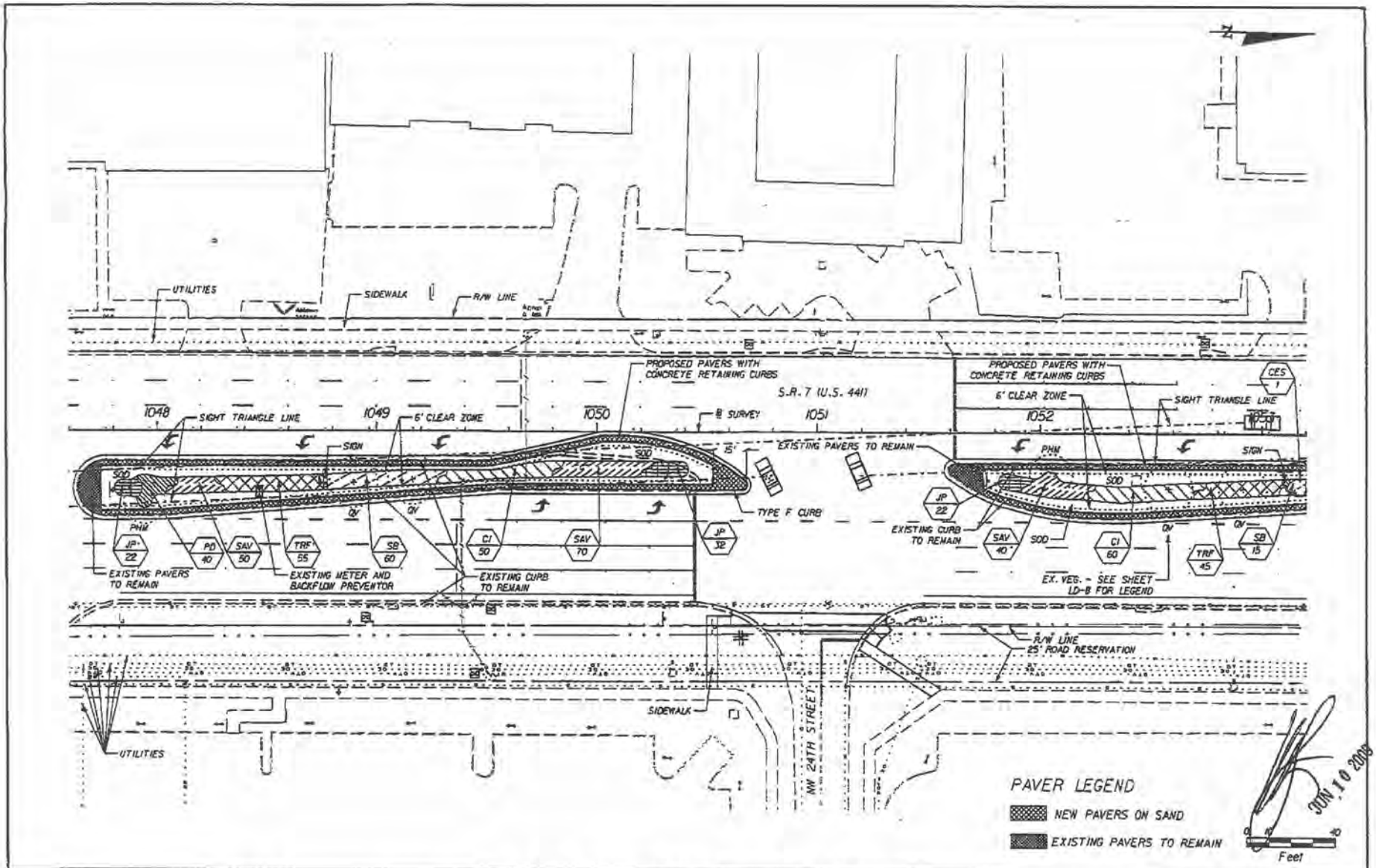

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, R.L.A. #667
Cotleur Hearing
634 Commerce Lake Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0000239
Vendor No. 65-0270194

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-30

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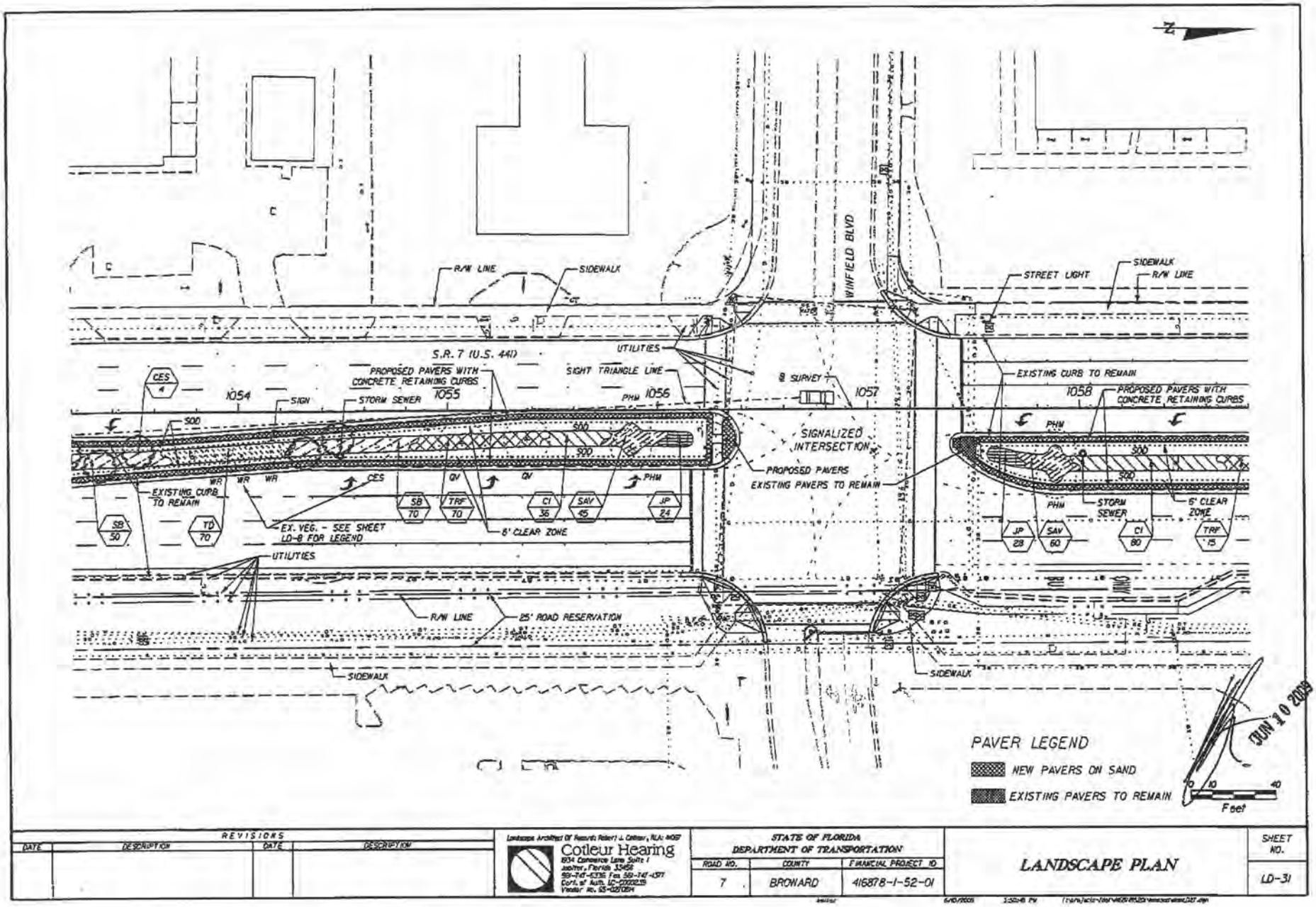

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, FLA: 0657
Cotleur Hearing
1934 Commerce Lane, Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0000215
Vendor No. 65-0270614

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-31

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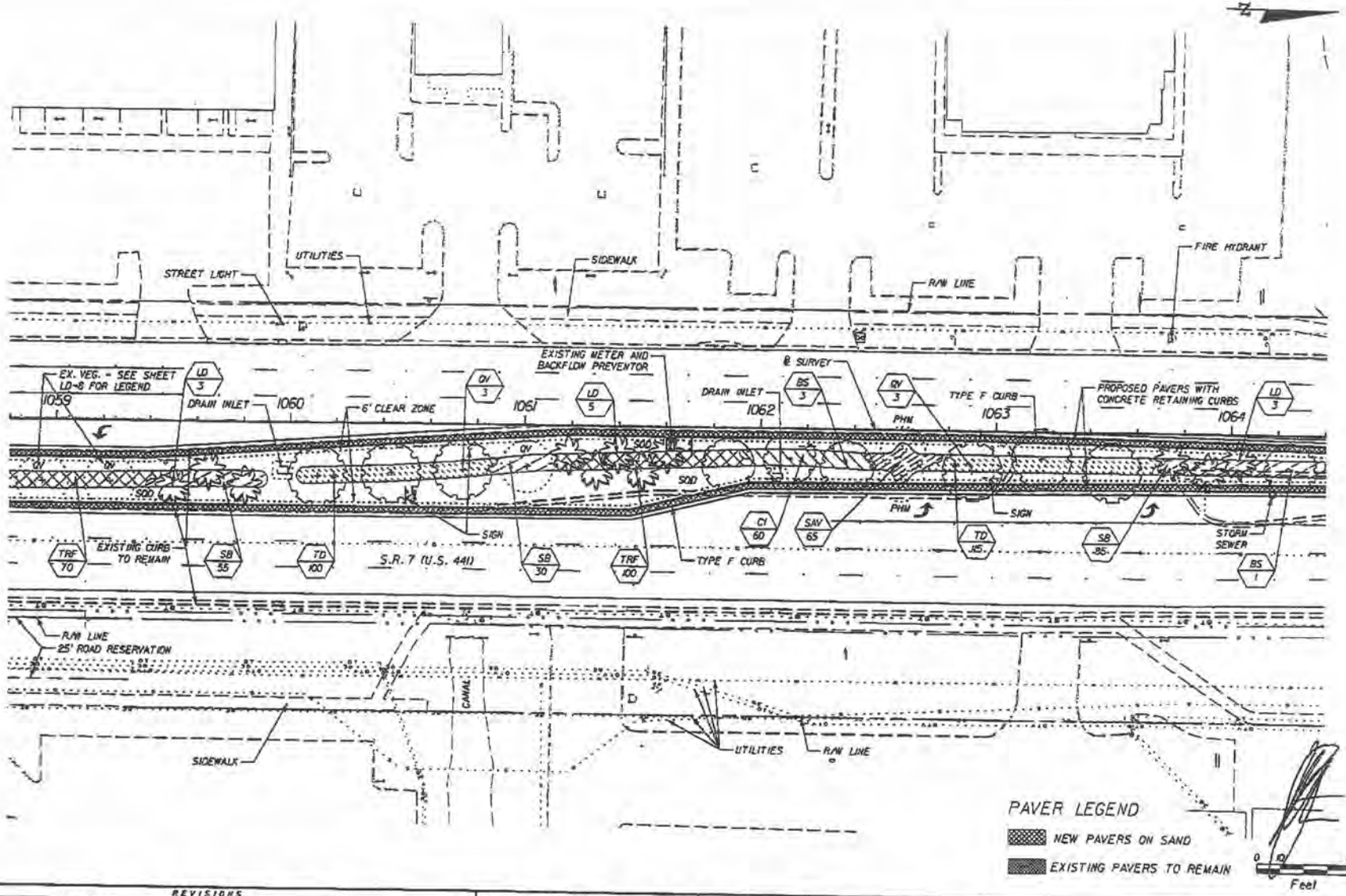

JUN 10 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, RLA: 440E
Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-5336 Fax 561-747-1377
Cert. of Auth. LC-C000235
Vendor No. 65-0270894

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	415878-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-32

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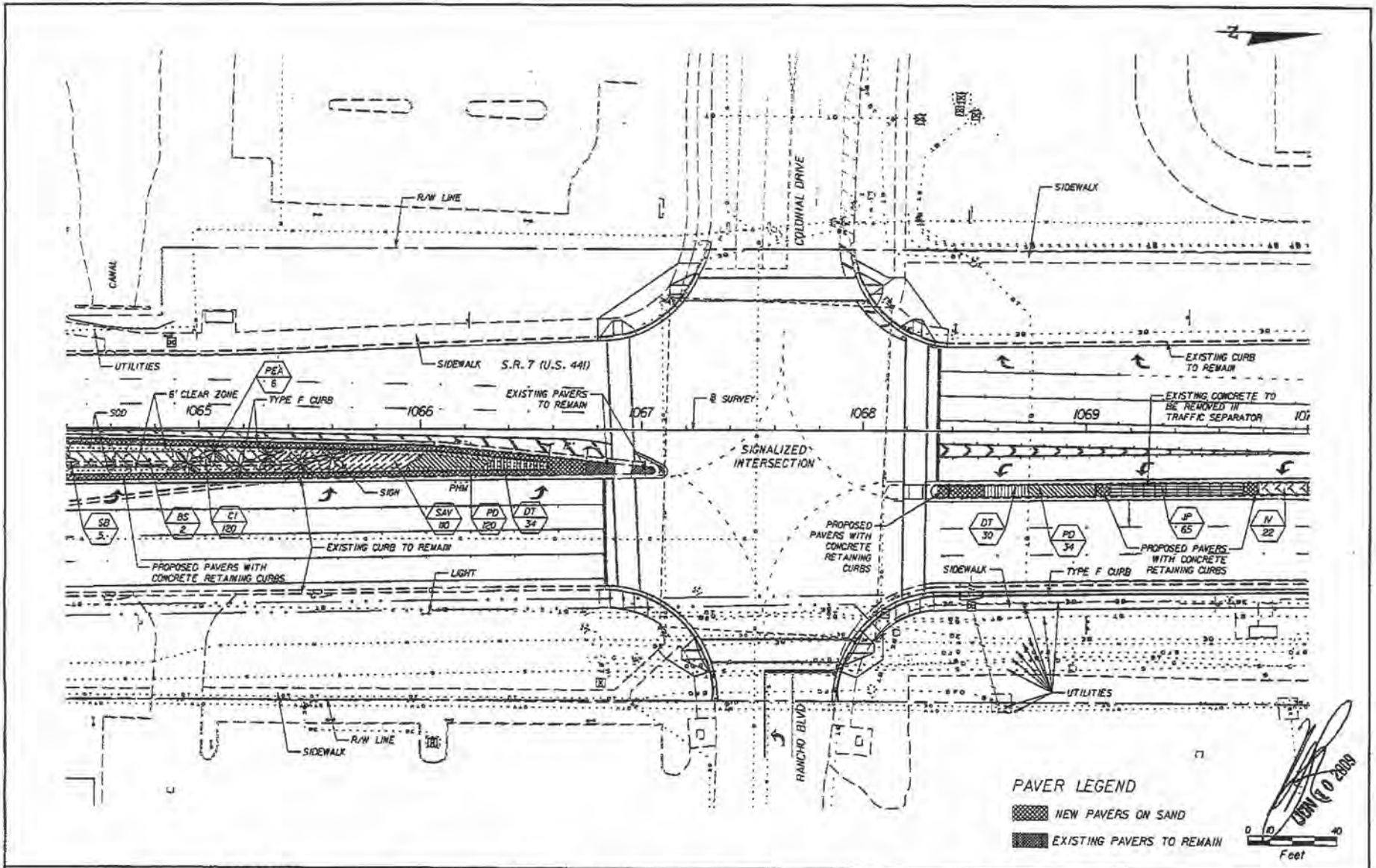


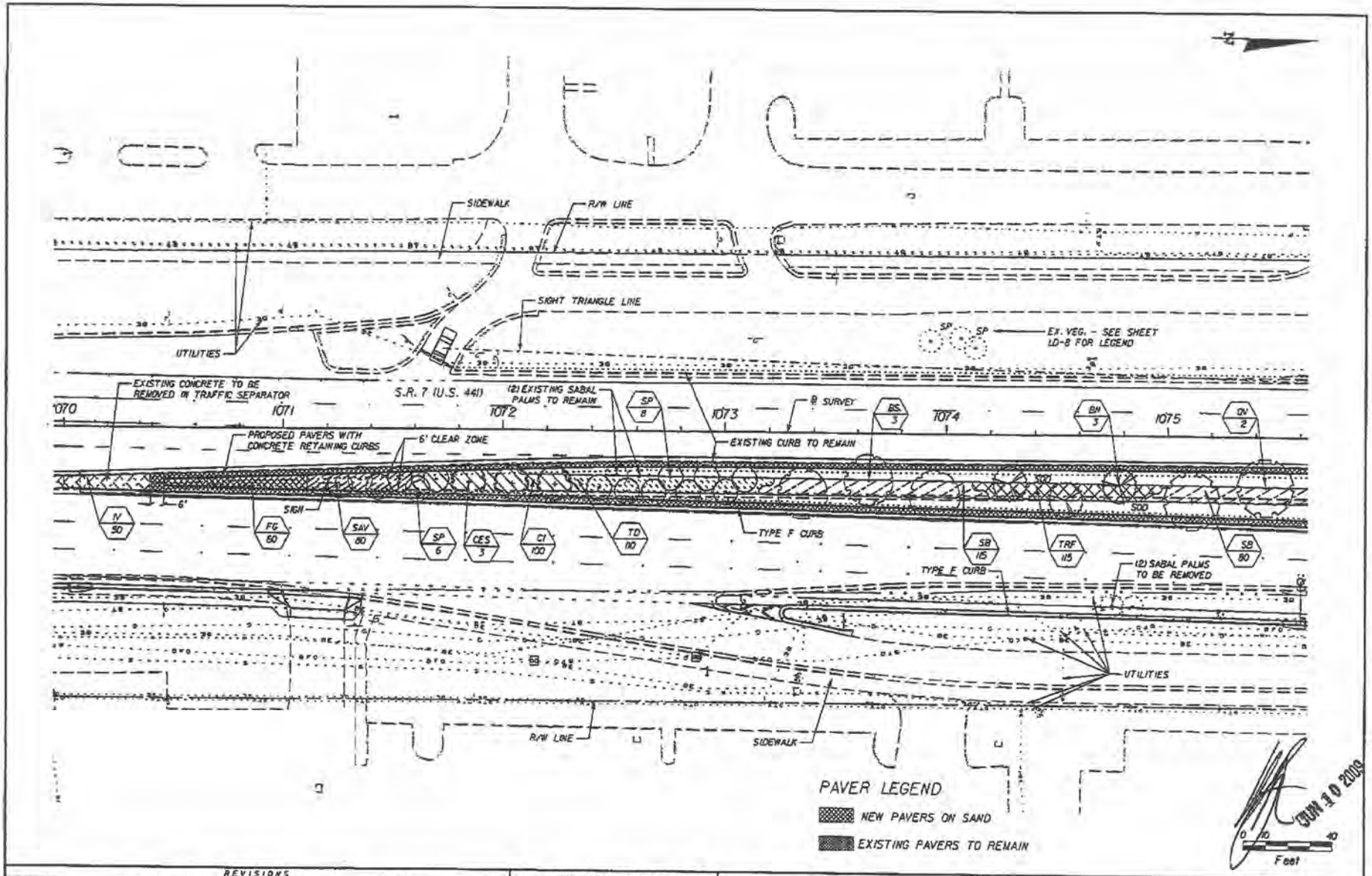
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotteur, RLA: 0667
Cotteur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000239
Vendor No. 65-0270154

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-33



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect of Record: Robert J. Cotleur, FLA: #667
Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000219
Vendor No. 65-0270814

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-34

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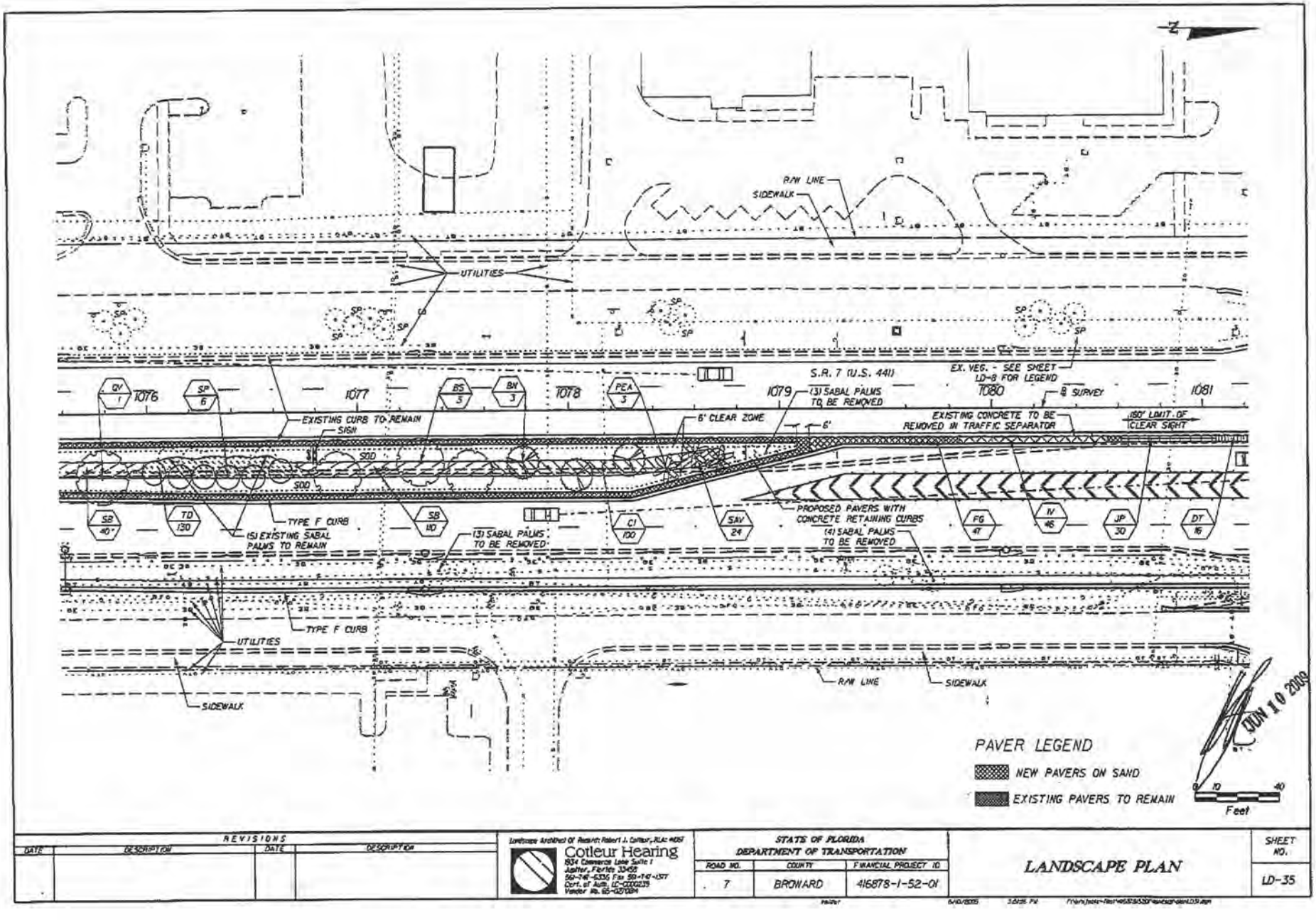

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, FLA: #657
Cotleur Hearing
1854 Commerce Lake Suite 1
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561-741-6336 Fax 561-741-1377
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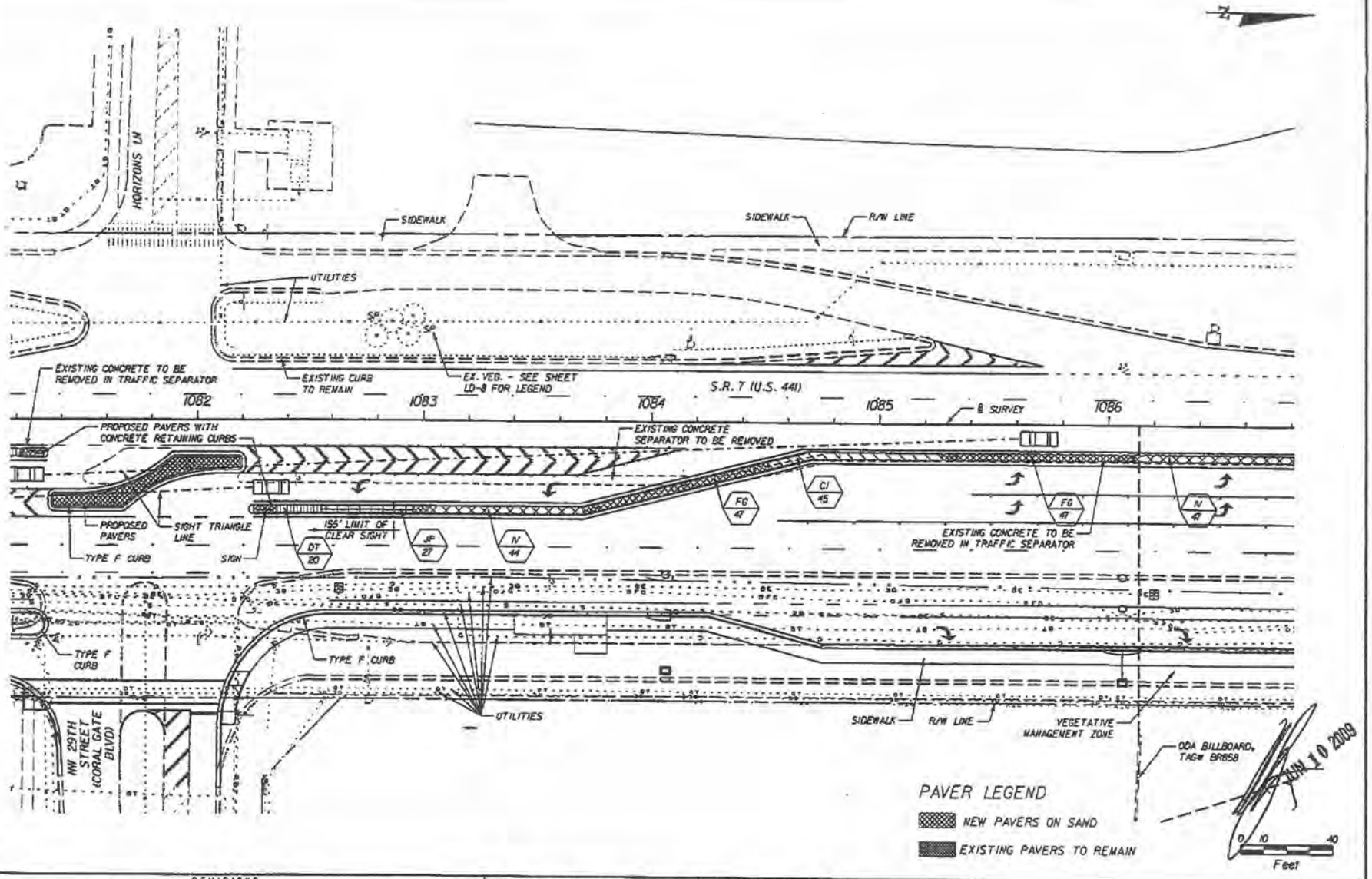
Vendor No. 65-0270184

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-35



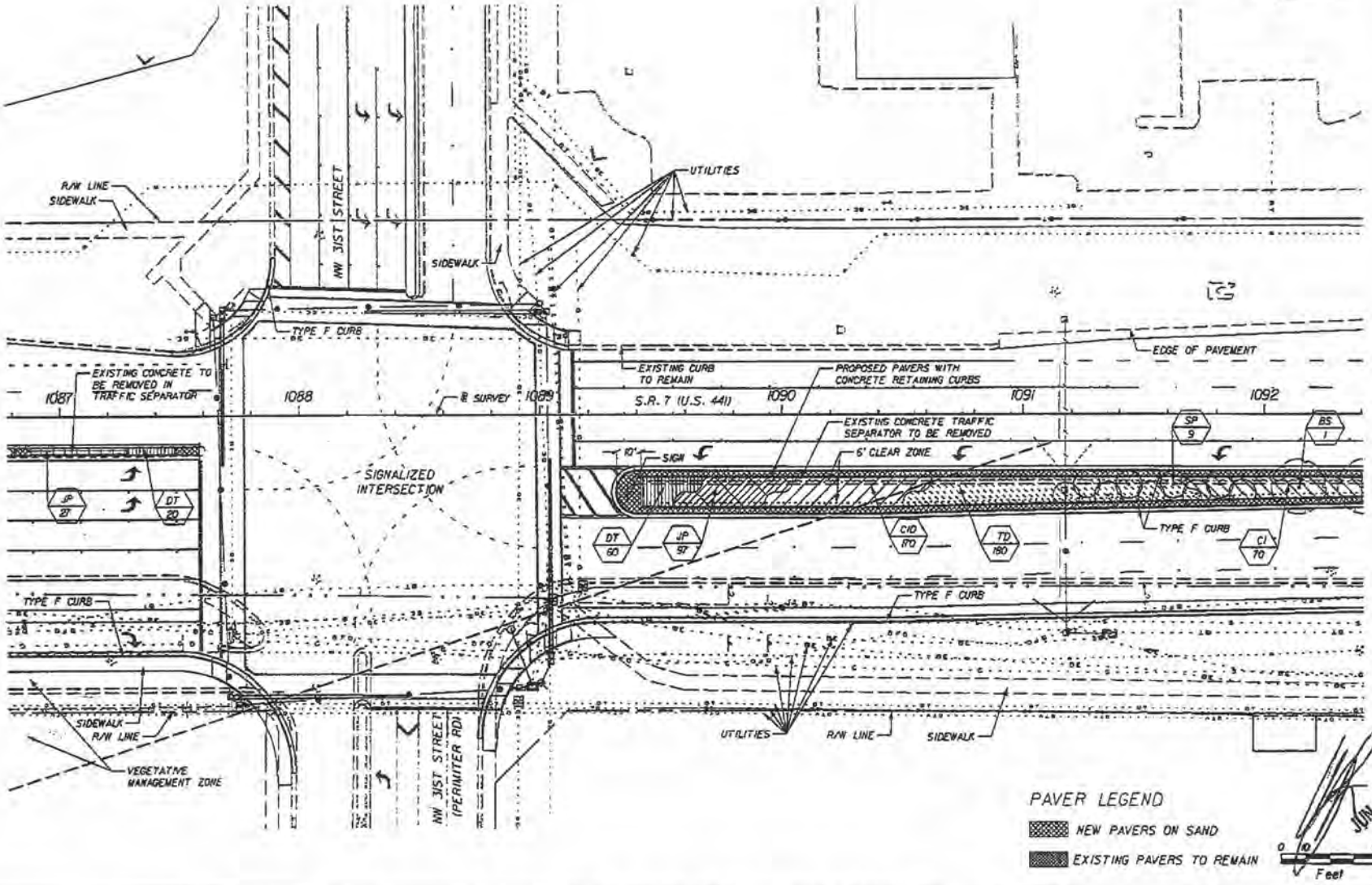
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Collier, PLA: 0667
Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0000218
Vendor No. 65-0210841

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-36



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotteur, FLA. #0667
Cotteur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000235
Vendor No. 55-0270814

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET NO.
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	LANDSCAPE PLAN	LD-37
7	BROWARD	416878-1-52-01		

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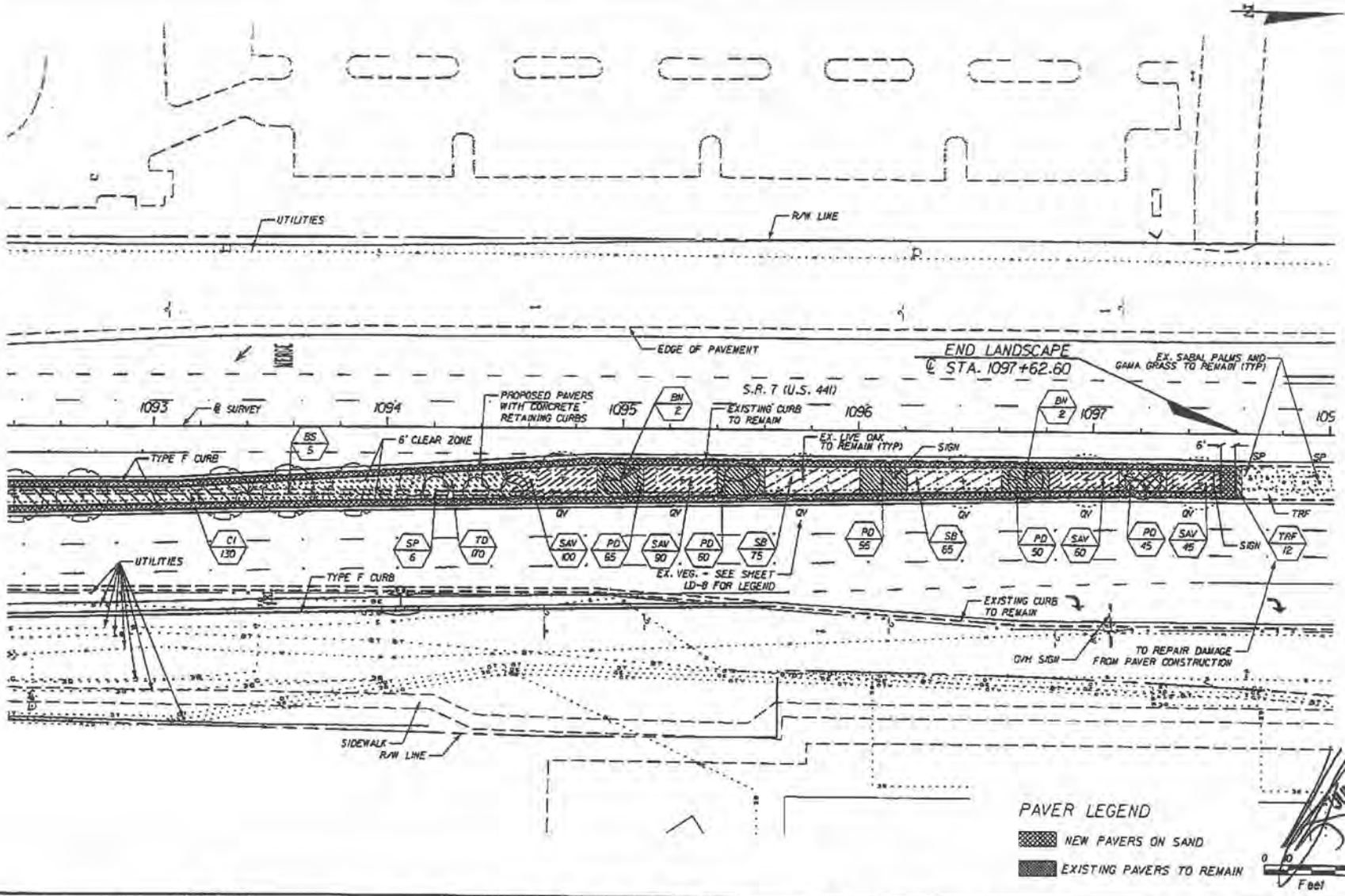

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, RLA: #667
Cotleur Hearing
6134 Commerce Lane Suite 1
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561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0000279
Vendor No. 65-0270154

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-38

IRRIGATION LEGEND AND TABULATION OF QUANTITIES

SYM	DESCRIPTION	UNIT	QUANTITY BY SHEET																														TOTAL
			LD-42	LD-43	LD-44	LD-45	LD-46	LD-47	LD-48	LD-49	LD-50	LD-51	LD-52	LD-53	LD-54	LD-55	LD-56	LD-57	LD-58	LD-59	LD-60	LD-61	LD-62	LD-63	LD-64	LD-65	LD-66	LD-67	LD-68	LD-69	LD-70	
	RAINBIRD 1800 SERIES 6" END STRIP	EA																		1	1	1						1				4
	RAINBIRD 1800 SERIES 6" SIDE STRIP	EA																				1						1				2
	RAINBIRD 1800 SERIES 12" END STRIP	EA				5	8	8	9	10	7	10	9										1				6	1	4	12	3		93
	RAINBIRD 1800 SERIES 12" SIDE STRIP	EA				29	53	44	64	29	41	33	46										4				20	11	14	30	4		422
	RAINBIRD 1800 SERIES 6" Q 15'	EA											2			1		6	2	1			2	2	2								18
	RAINBIRD 1800 SERIES 6" H 15'	EA	13	29												17	64	60	58	52	8	6	43	44	76	7	46	41					564
	RAINBIRD 1800 SERIES 12" Q 15'	EA	4			2	4				2																						12
	RAINBIRD 1800 SERIES 12" H 15'	EA	2		22	13	4				11											9											61
	RAINBIRD SHRUB ADAPTOR 15' OH PVC RISER	EA															9	2	10						8								29
	RAINBIRD 1800 SERIES 6" Q 10'	EA	1	1												2	2	2	2	3			4	1									18
	RAINBIRD 1800 SERIES 6" H 10'	EA	5	6									1			32	10			17	67	4	18	19		1	1	6					187
	RAINBIRD 1800 SERIES 12" Q 10'	EA								3					1	2						1					1	1					9
	RAINBIRD 1800 SERIES 12" H 10'	EA				35				5	11	10			50	20				6		18				27	21					203
	RAINBIRD PRS 1800 SERIES 12" Q 10' (CITY OF CORAL SPRINGS)	EA																												2	1	3
	RAINBIRD PRS 1800 SERIES 12" H 10' (CITY OF CORAL SPRINGS)	EA																												58	102	160
	SERVICE TAP WITH METER, SIZE AS NOTED IN PLANS	EA				1			1	1	1																						4
	WILKINS PRESSURE VACUUM BREAKER, SIZE AS NOTED IN PLANS	EA				1			1	1	1																						4
	IRRITROL 100 SERIES 1-1/2" VALVE (CITY OF MARGATE)	EA																				1										1
	IRRITROL 100 SERIES 2" VALVE (CITY OF MARGATE)	EA		4		4	4	3	4	4	6	2	3			3	3	3	4	2	2	1	3	2	4	2	3	3	2			71
	RAINBIRD 2" PGA SERIES VALVE (CITY OF CORAL SPRINGS)	EA																													2	2
	LEIT 4000, 4 STATION SOLAR CONTROLLER WITH RAIN SENSOR	EA		1	1															1		2										5
	LEIT 4000, 6 STATION SOLAR CONTROLLER WITH RAIN SENSOR	EA		1					1														1									3
	LEIT XRC, 10 STATION SOLAR CONTROLLER WITH RAIN SENSOR	EA				1				1	1																						3
	LEIT XRC, 16 STATION SOLAR CONTROLLER WITH RAIN SENSOR	EA															1								1								2
	SCH. 160 PVC LATERAL LINE, SIZE AS NOTED IN PLANS	*LF	534	702	502	907	815	530	784	462	804	546	605		504	868	1166	1054	1033	1056	813	555	884	866	1208	658	1055	879	443	665	1022	21,890
	SCH. 40 MAIN LINE PIPE, SIZE AS NOTED IN PLANS	*LF		70		385	558	139	455	395	366	520	245			540	570	565	458	330	160		505	205	525	561	557	557	405			9,071
	EXISTING SLEEVE, SIZE AS NOTED IN PLANS																															
	SCH. 40 PVC SLEEVE AND SCH. 40 ELECTRICAL CONDUIT, SIZE AS NOTED IN PLANS	*LF	78	155		30	60	40	70	65	80	70	60			116										254	20	60	80	10		1238
	H.D.P.E. DIRECTIONALLY BORED, SIZE AS NOTED IN PLANS	*LF	55				138			70		180														204			120			767

NOTES:
1. REFER TO IRRIGATION LEGEND FOR PRODUCT DESCRIPTION AND MODEL NUMBERS.
2. * PIPE LENGTHS BASED ON SCHEMATIC LAYOUT SHOWN IN THESE PLANS. ACTUAL QUANTITIES MAY VARY.

JUN 10 2009

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, FLA: #667
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1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION LEGEND AND TABULATION OF QUANTITIES

SHEET NO. LD-39

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GENERAL NOTES:

THE EXTENT OF IRRIGATION SYSTEM IMPROVEMENTS VARY THROUGHOUT THE PROJECT LIMITS. THE FOLLOWING IS A GENERAL SUMMARY OF PROPOSED IMPROVEMENTS. ALL AREAS TO BE IRRIGATED ARE WITHIN ROADWAY MEDIANS.

THE MEDIAN AREAS BETWEEN MARGATE COURT (STA 955) AND MARGATE BLVD (STA. 991) WILL RECEIVE ENTIRELY NEW IRRIGATION SYSTEMS, INCLUDING TAPPING POTABLE WATER MAINS AND INSTALLING METERS, BACKFLOW PREVENTORS AND CONTROLLERS. ALL OTHER AREAS WILL UTILIZE EXISTING WATER SOURCES, WHICH ARE ALL POTABLE, EXCEPT FOR THE AREA NORTH OF NW 31ST STREET (STA 1088), WHICH UTILIZES AN EXISTING WELL AND PUMP STATION, LOCATED NORTH OF SAMPLE ROAD. PROPOSED IMPROVEMENTS VARY IN THESE AREAS FROM ENTIRELY NEW ZONES AND CONTROLLERS TO REPLACING HEADS ON EXISTING ZONES. IN SOME CASES, EXISTING ZONES WILL REMAIN UNDISTURBED.

THE OVERALL SCOPE OF IRRIGATION WORK WILL INCLUDE FURNISHING ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE ALL MODIFICATIONS AS SHOWN IN THE PLANS, INCLUDING, BUT NOT LIMITED TO; (1) MODIFICATIONS AND ADJUSTMENTS TO EXISTING SYSTEMS OR ZONES, (2) DIRECTIONAL DRILLING, TRENCHING AND BACKFILLING, (3) INSTALLATION OF FULLY AUTOMATED IRRIGATION SYSTEMS, (4) INSTALLATION OF TAPS, METERS AND BACKFLOW PREVENTORS, (5) HYDROSTATIC AND OPERATIONAL TESTING, (6) PREPARATION OF AS-BUILT DRAWINGS, (7) COORDINATION WITH MAINTENANCE STAFF FROM THE MAINTAINING AUTHORITIES, (MARGATE AND CORAL SPRINGS).

THE SCOPE OF IRRIGATION WORK WILL NOT INCLUDE PROVIDING ANY WELLS, PUMP STATIONS, SUCTION LINES OR PROVIDING ELECTRIC SERVICE. THE SCOPE OF IRRIGATION WORK DOES NOT INCLUDE CUTTING OR IMPACTING ANY ROADWAY PAVEMENT.

1. PRIOR TO STARTING WORK, THE CONTRACTOR WILL PERFORM A VISUAL INSPECTION AND PERFORMANCE TEST OF THE EXISTING IRRIGATION SYSTEMS (OR COMPONENTS) THAT ARE INTENDED TO REMAIN, IN THE PRESENCE OF THE ENGINEER AND CITY REPRESENTATIVE TO DOCUMENT THEIR CONDITION. ANY REPAIRS THAT ARE REQUIRED AT THAT TIME WILL BE COMPLETED BY THE CITY.

2. ALL IRRIGATION SYSTEMS ARE WITHIN THE CITY OF MARGATE LIMITS AND WATER SERVICE JURISDICTION. THE IRRIGATION SYSTEM NORTH OF NW 31ST STREET IS MAINTAINED BY THE CITY OF CORAL SPRINGS AND UTILIZES A PUMP STATION AND CONTROLLER THAT IS LOCATED NORTH OF SAMPLE ROAD, WITHIN THE CITY LIMITS OF CORAL SPRINGS. THEREFORE, THE CONTRACTOR WILL NEED TO COORDINATE THE WORK IN THIS AREA WITH THE CITY OF CORAL SPRINGS; CONTACT PERSON MARK WESTFALL, (PH# 954-344-1117). THE WORK IN ALL OTHER AREAS WILL BE COORDINATED WITH THE CITY OF MARGATE. ALL NEW IRRIGATION TAPS, METER BOXES, CURB STOPS, AND BACKFLOW PREVENTORS WILL BE INSTALLED BY THE CONTRACTOR. ALL NEW METERS WILL BE INSTALLED BY THE CITY OF MARGATE AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR MUST RESTORE THE AREA IMMEDIATELY AFTER THE CITY COMPLETES THEIR WORK. THE CITY OF MARGATE CONTACT FOR COORDINATING THIS WORK WILL BE EMILIO ESTABAN, (PH# 954-972-0822).

3. THE CONTRACTOR SHALL RUN 2 ADDITIONAL SETS OF WIRES IN EACH DIRECTION TO EACH END OF THE MAIN FOR FUTURE USE, (ON NEW SYSTEMS ONLY).

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HARD WIRING ALL ELECTRICAL SERVICE CONNECTIONS.

5. ALL (NEW) SLEEVES BELOW ROADWAY PAVEMENT SHALL BE HDPE OR SCH. 80 AND WILL BE PAID FOR UNDER THE CONTRACT LUMP SUM PRICE FOR IRRIGATION. ALL (NEW) SLEEVES BELOW PAVER AREAS SHALL BE SCH. 40 (MIN.) AND THE COST FOR THESE SLEEVES WILL ALSO BE INCLUDED IN THE LUMP SUM COST OF THE IRRIGATION SYSTEM.

6. SOME SLEEVES BELOW ROADWAY PAVEMENT ARE EXISTING AND ARE CONSIDERED TO BE ADEQUATE FOR USEAGE AS INTENDED. THE SIZE, CONDITION AND LOCATION INFORMATION FOR THESE SLEEVES WAS PROVIDED BY THE CITY AND IS ASSUMED TO BE ACCURATE. IF IT IS DETERMINED THAT THESE SLEEVES CANNOT BE LOCATED OR ARE NOT IN A USEABLE CONDITION FOR THEIR INTENDED PURPOSE, THEN THE CONTRACTOR SHALL PROVIDE A COST PROPOSAL TO THE DEPARTMENT FOR INSTALLING NEW SLEEVES, EITHER BY OPEN TRENCHING OR BY DIRECTIONAL DRILLING AS REQUIRED. THE CONTRACTOR SHALL LOCATE AND CONFIRM THE CONDITION OF ALL EXISTING SLEEVES TO BE UTILIZED ON THE PROJECT AS EARLY AS POSSIBLE DURING CONSTRUCTION AND BEFORE ROADWAY RESURFACING HAS BEGUN.

7. FINAL LOCATION OF ALL COMPONENTS SHALL BE SUBJECT TO ENGINEERS APPROVAL.

8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO CONTACT THE ENGINEER FOR HYDROSTATIC AND OPERATIONAL TESTING.

9. ALL MAIN LINE PIPES PLACED IN SLEEVES SHALL BE SCH. 40 SOLVENT WELD WITH ADEQUATE RESTRAINTS. THE SLEEVE SHALL BE A MINIMUM TWO (2) TIMES LARGER THAN THE ENCASED PIPE DIAMETER.

10. ALL COMPONENTS SHOWN AND/OR DEPICTED ON THE PLAN SHEETS REPRESENT APPROXIMATE LOCATION ONLY, AND ARE FOR CLARIFICATION PURPOSES. THE FINAL LOCATION OF ALL COMPONENTS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.

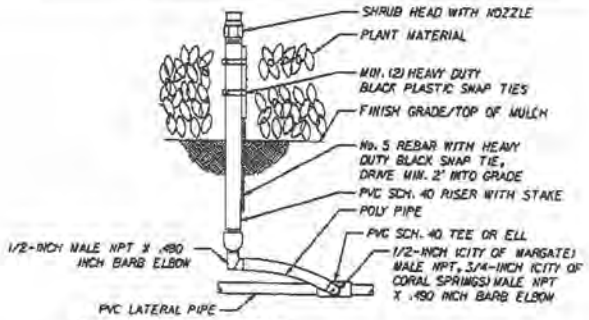
11. DO NOT SCALE PLAN FOR EXACT HEAD LOCATION.

12. IRRIGATION COMPONENT TRADE NAMES ARE SPECIFIED DUE TO REQUEST BY MAINTAINING AUTHORITY, (CITY OF MARGATE), TO ENSURE COMPATIBILITY WITH OTHER CITY SYSTEMS. ALL SUBSTITUTIONS TO MATERIALS SPECIFIED SHALL BE APPROVED BY THE ENGINEER AND THE MAINTAINING AUTHORITY.

13. ALL PIPING ON THE PLANS IS DIAGRAMMATICALLY ROUTED FOR CLARITY AND SHALL BE ROUTED TO AVOID PLANTS AND UTILITIES. DESIGN MODIFICATIONS WILL ONLY BE MADE AS NECESSARY TO MEET FIELD CONDITIONS AND ONLY UPON APPROVAL OF THE ENGINEER.

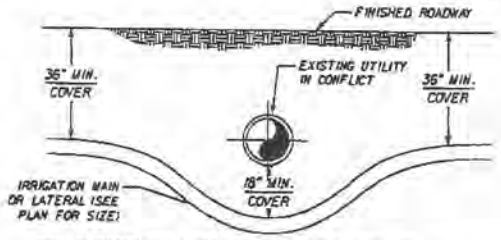
14. THE CONTRACTOR SHALL MAKE ADJUSTMENTS TO THE PROPOSED IRRIGATION SYSTEM TO INSURE 100% COVERAGE AND TO MINIMIZE OVERSPRAY. THE CONTRACTOR SHALL SUBSTITUTE ADJUSTABLE NOZZLES FOR FIXED PATTERN NOZZLES SPECIFIED WHERE NECESSARY.

15. ALL RISERS SHALL BE PAINTED FLAT BLACK.



SHRUB RISER DETAIL

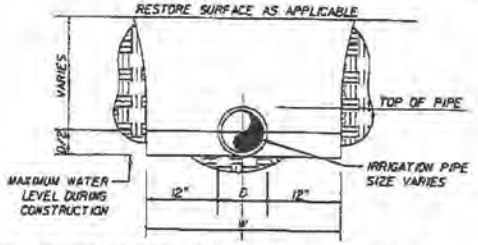
NOT TO SCALE



NOTE: IRRIGATION MAIN LINES OR LATERAL LINES THAT ARE SHOWN AS PVC PIPES IN SLEEVES MAY NEED TO BE SUBSTITUTED WITH H.D.P.E. PIPE AND DIRECTIONALLY DRILLED WHERE EXISTING UTILITIES CAN NOT BE CROSSED WITHOUT EXCESSIVE EXCAVATION. COORDINATE ALL CHANGES WITH ENGINEER

TYPICAL CONFLICT DETAIL

NOT TO SCALE



NOTES: BEDDING FOR TYPICAL IRRIGATION WATER MAIN OR LATERAL INSTALLATION SHALL BE TYPE C. BEDDING SHALL BE COMPACTED TO 95% OF THE MATERIALS MAXIMUM DENSITY AS DETERMINED IN ASTM D-1557 (AASHTO T-180). TYPE C BEDDING SHALL BE DEFINED AS: SAND WITH 100 PERCENT PASSING A 9.75 SIEVE, AT LEAST 95 PERCENT PASSING A NUMBER 4 SIEVE AND A SAND EQUIVALENT VALUE NOT LESS THAN 30.

TYPICAL TRENCH DETAIL

NOT TO SCALE

JUN 10 2009

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

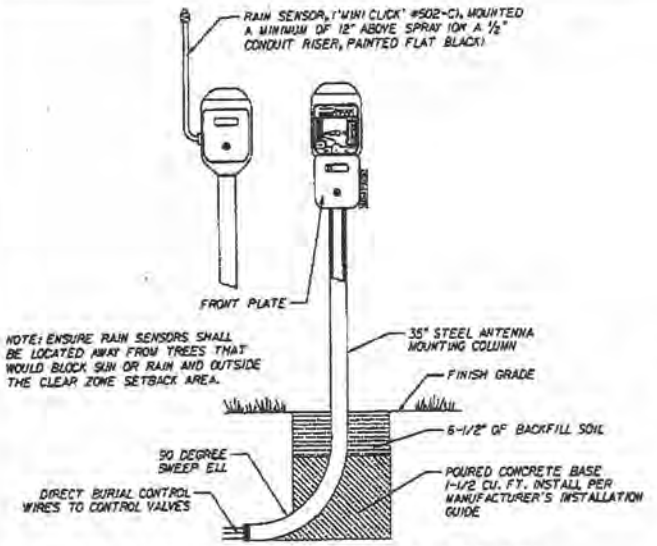
Landscape Architect of Record: Robert J. Cotleur, R.L.A. #657
Cotleur Hearing
634 Clearwater Loop Suite I
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0000239
Vendor No. 65-0870814

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	415878-1-52-01

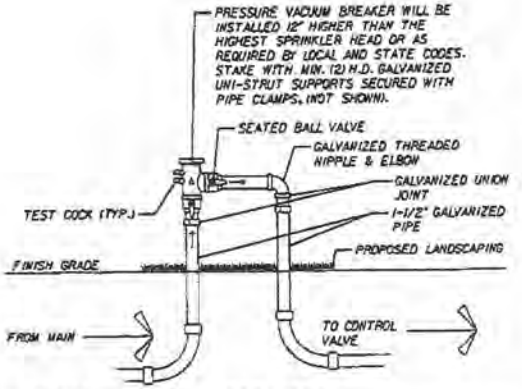
IRRIGATION GENERAL NOTES AND DETAILS

SHEET NO. LD-40

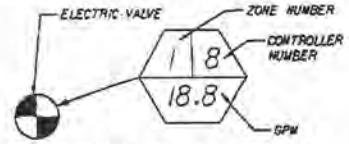
6/10/2009 5:57:44 PM T:\Projects\2008\08-1261-00\Plans\Irrigation\LD01.dgn



LEIT 4000 4 & 6 STATION, LEIT XRC 10 & 16 STATION
IRRIGATION SOLAR CONTROLLER WITH RAIN SENSOR
NOT TO SCALE



1" PRESSURE VACUUM BREAKER
NOT TO SCALE



VALVE LABEL DETAIL
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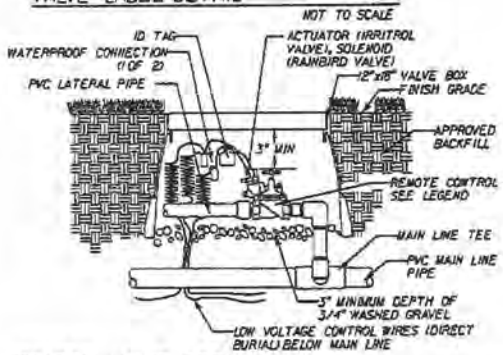
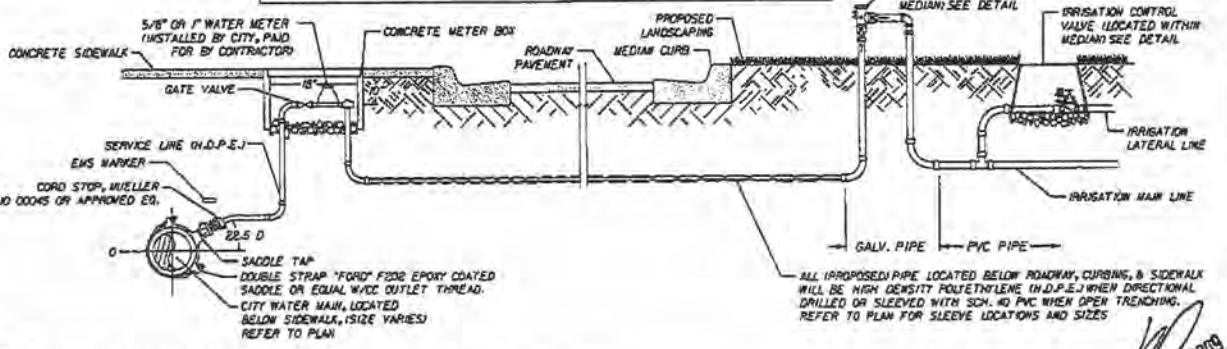
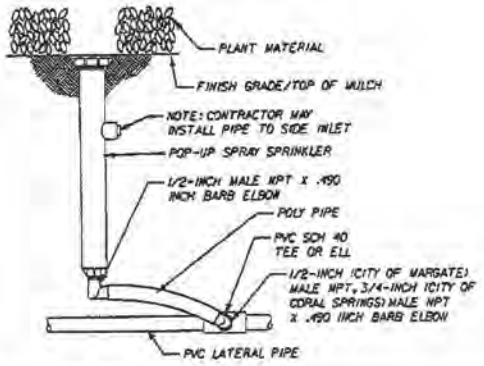


CONTROL VALVE DETAIL
NOT TO SCALE

NOTE: EXISTING WATER MAINS ARE LOCATED BELOW SIDEWALKS AND ALL PROPOSED METERS ARE LOCATED WITHIN SIDEWALKS, THEREFORE PAVEMENT REMOVAL AND RESTORATION WILL BE REQUIRED, REFER TO ROADWAY PLANS.

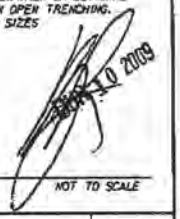




6" OR 12" POP-UP SPRINKLER
NOT TO SCALE

TYPICAL IRRIGATION SERVICE CONNECTION
NOT TO SCALE

NOTES:
1) POLY TUBING FITTINGS REQUIRE METAL (S.S.) INSERTS.
2) ALL PROPOSED PIPE LOCATED BELOW ROADWAY, CURBING, & SIDEWALK WILL BE HIGH DENSITY POLYETHYLENE (H.D.P.E.) TYPICAL REFER TO PLAN FOR SLEEVE LOCATIONS AND SIZES
3) ALL NEW SLEEVES BELOW ROADWAY SHALL EXTEND A MIN. OF 24" BEYOND THE EDGE OF THE ROAD. SEAL ENDS WITH "FERNCO" TYPE COUPLING WITH STAINLESS STEEL BANDING CLAMPS.
4) CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING GRADE AND SOD AREAS DISTURBED IMMEDIATELY AFTER WATER MAIN TAPPING PROCEDURES.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Landscape Architect Of Record: Robert J. Collier, PLA: #667
Coticur Hearing
1534 Commerce Lane Suite 1
Jupiter, Florida 33458
561-741-6336 Fax 561-741-1377
Cert. of Auth. LC-C000279
Vendor No. 59-0870694

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION DETAILS	SHEET NO.
ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-41
7	BROWARD	416878-1-52-01		

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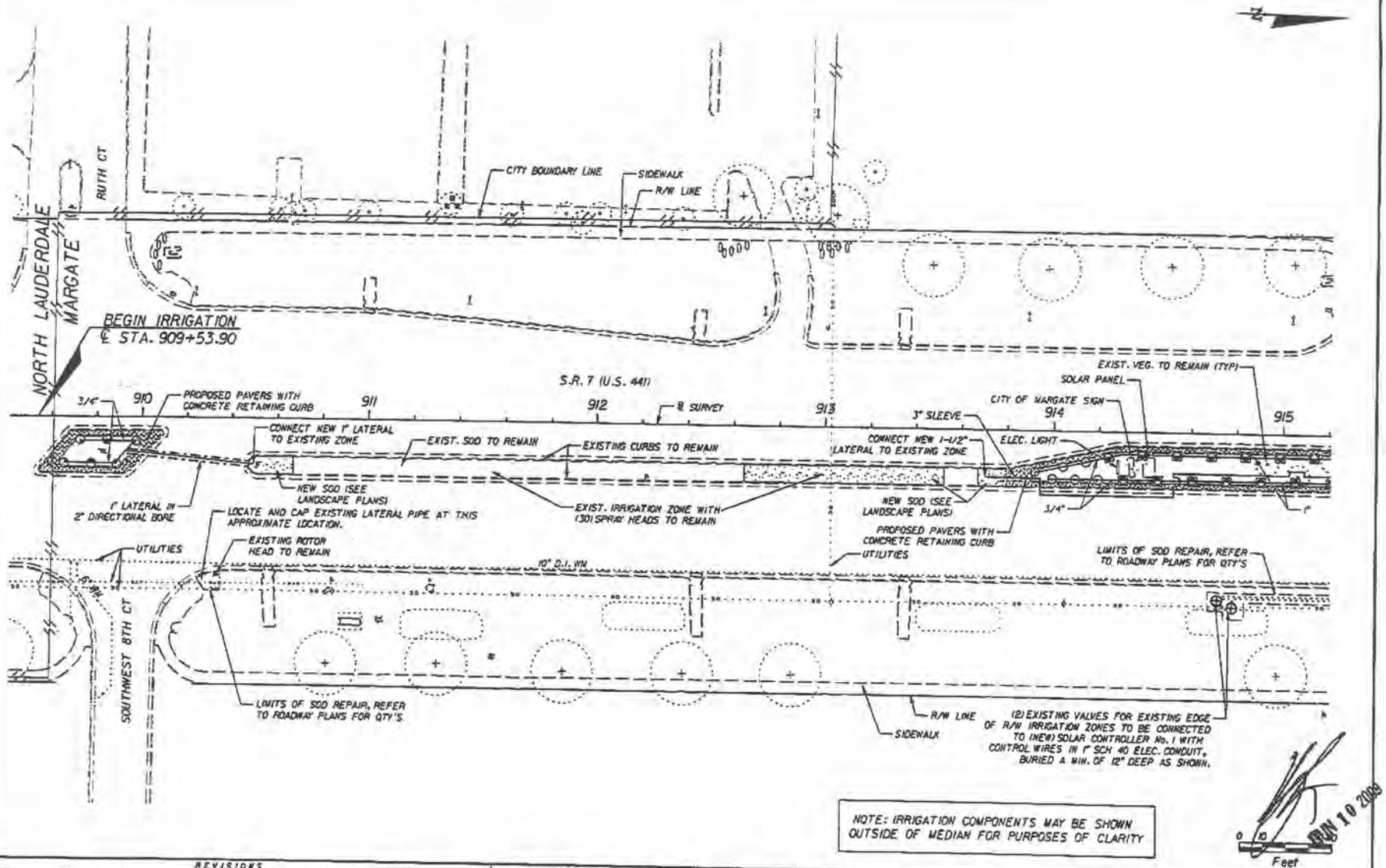

NOTE: IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE OF MEDIAN FOR PURPOSES OF CLARITY

JUN 10 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, RLA: #403

Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000239
Vendor No. 59-1870814

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-42

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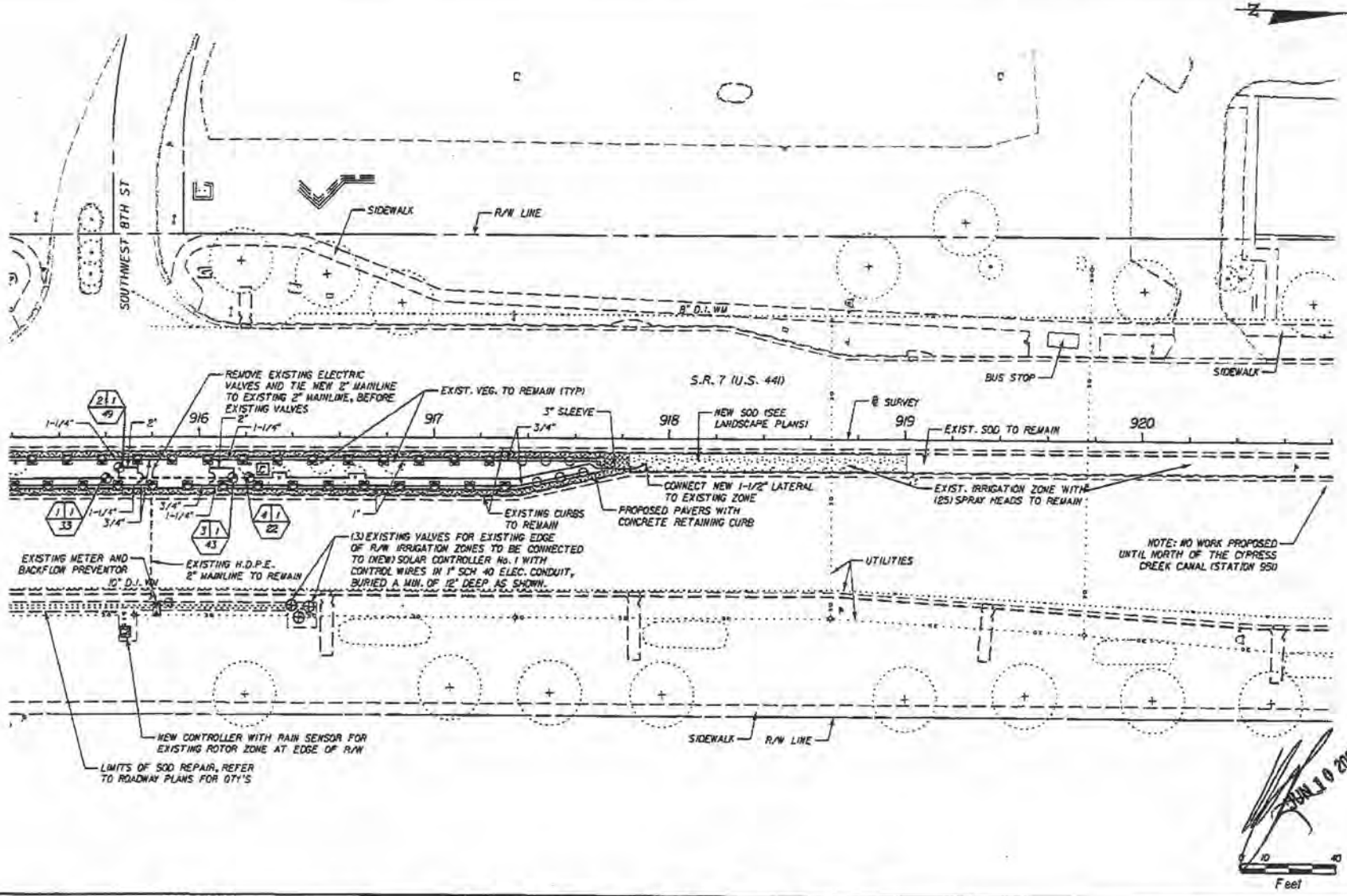

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, R.L.A. #675
Cotleur Hearing
634 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6335 Fax 561-747-1377
Cert. of Auth. LC-C000239
Vendor No. 59-1871094

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				
ROAD NO.	COUNTY	FINANCIAL PROJECT ID.	IRRIGATION PLAN	SHEET NO.
7	BROWARD	415878-1-52-01		LD-43

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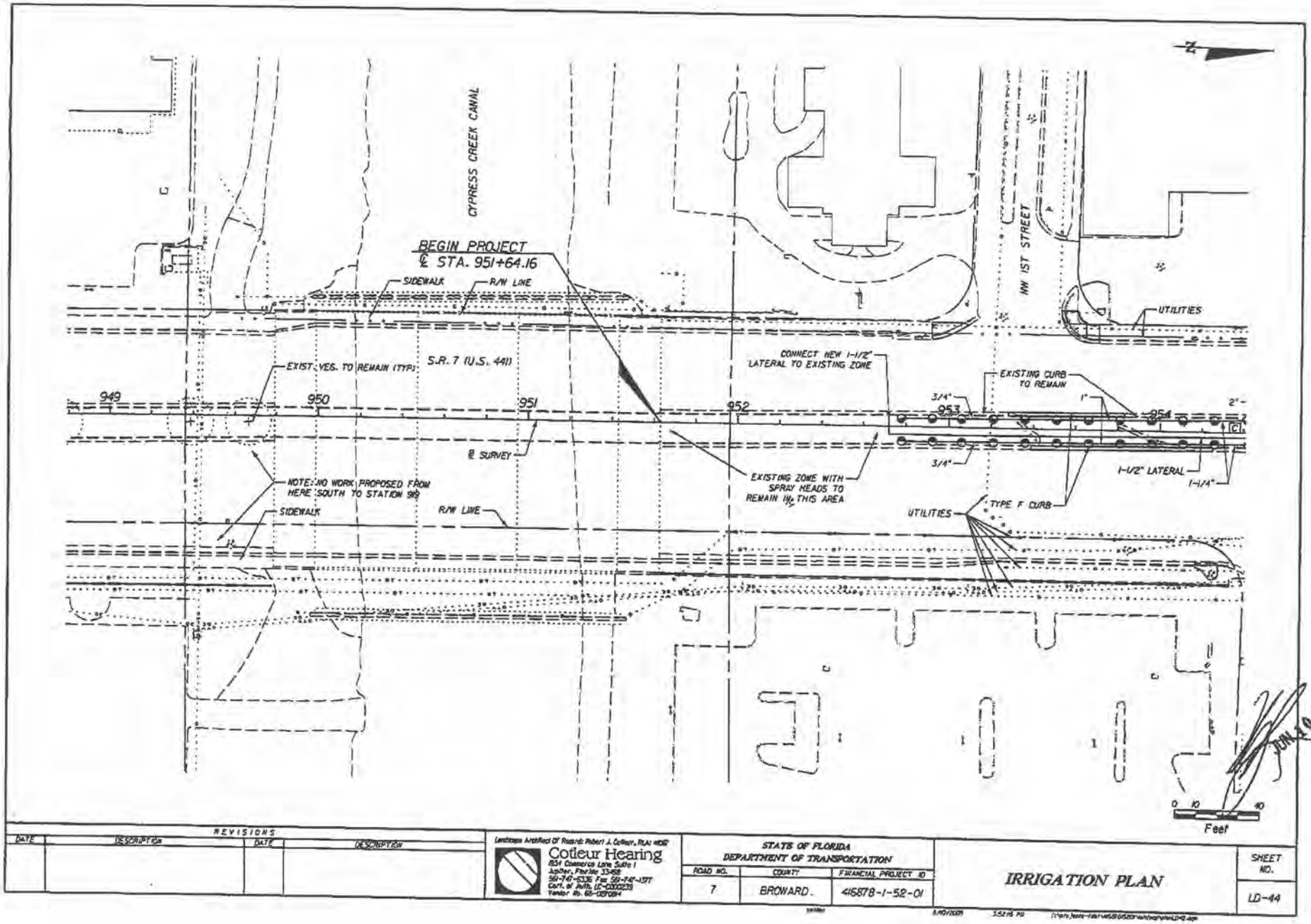
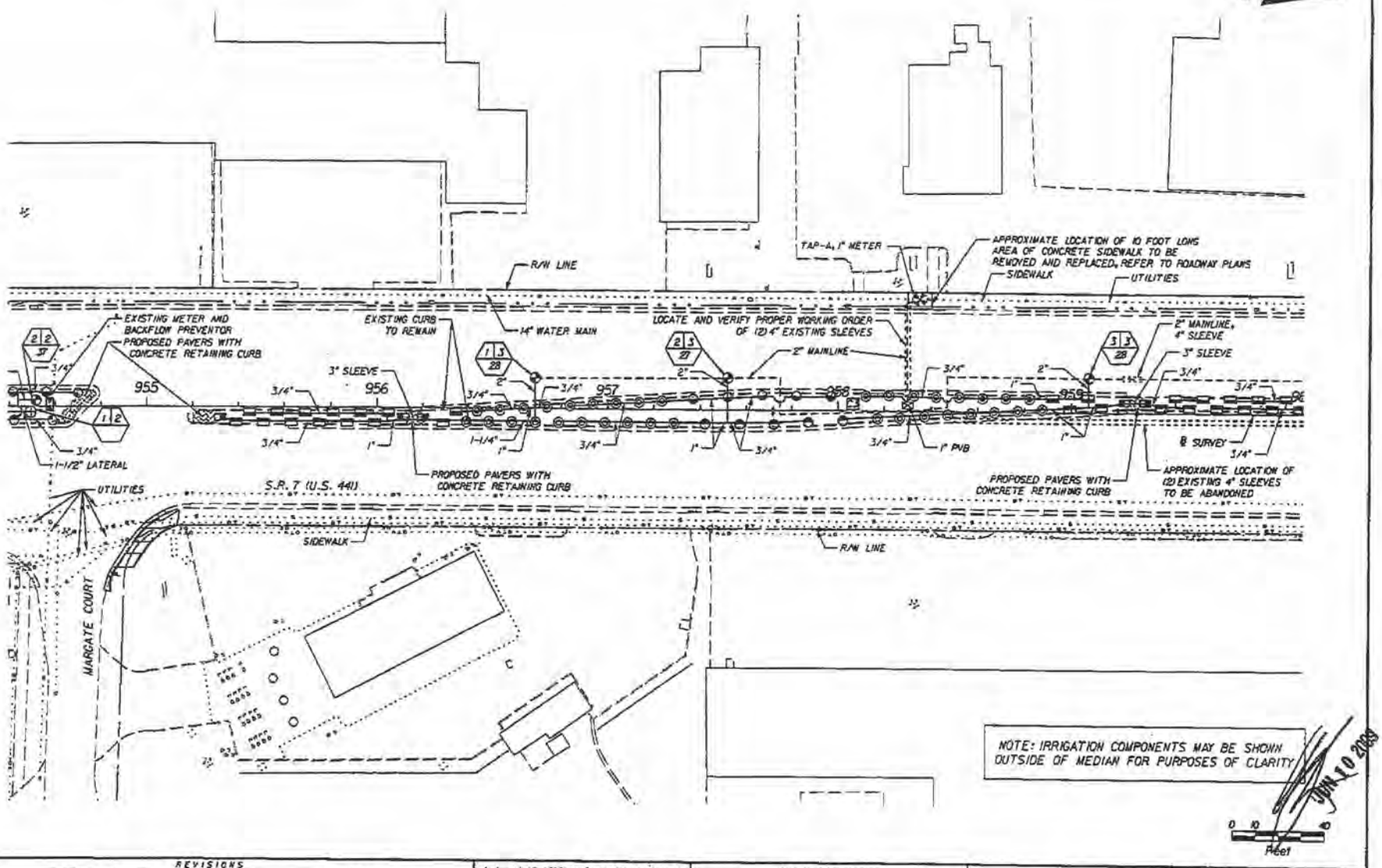


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, PLA #0615
Cotleur Hearing
834 Commerce Lane Suite 1
Jupiter, Florida 33458
561-741-6336 Fax 561-741-1311
Cert. of Auth. LC-C000235
Vendor No. 59-0291084

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET NO.
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	IRRIGATION PLAN	LD-44
7	BROWARD	415878-1-52-01		



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect of Record: Robert A. Cotleur, R.L.A.: 0667
Cotleur Hearing
834 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000239
Vendor No. 59-2270184

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-45

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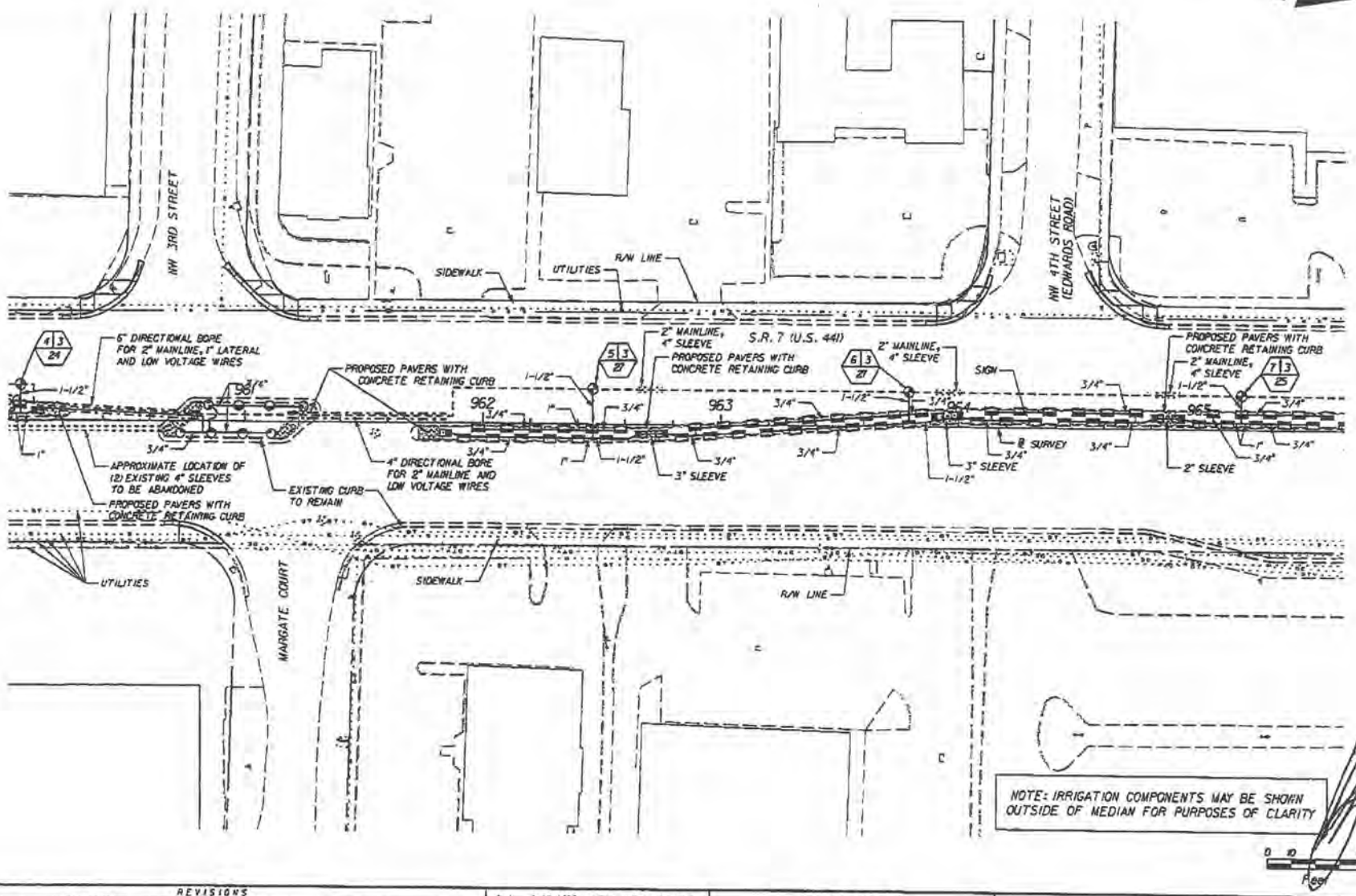

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, PLA: #0267
Cotleur Hearing
934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-745-6336 Fax: 561-745-6377
Cert. of Auth. LC-0002236
Vendor No. 65-0270284

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-46

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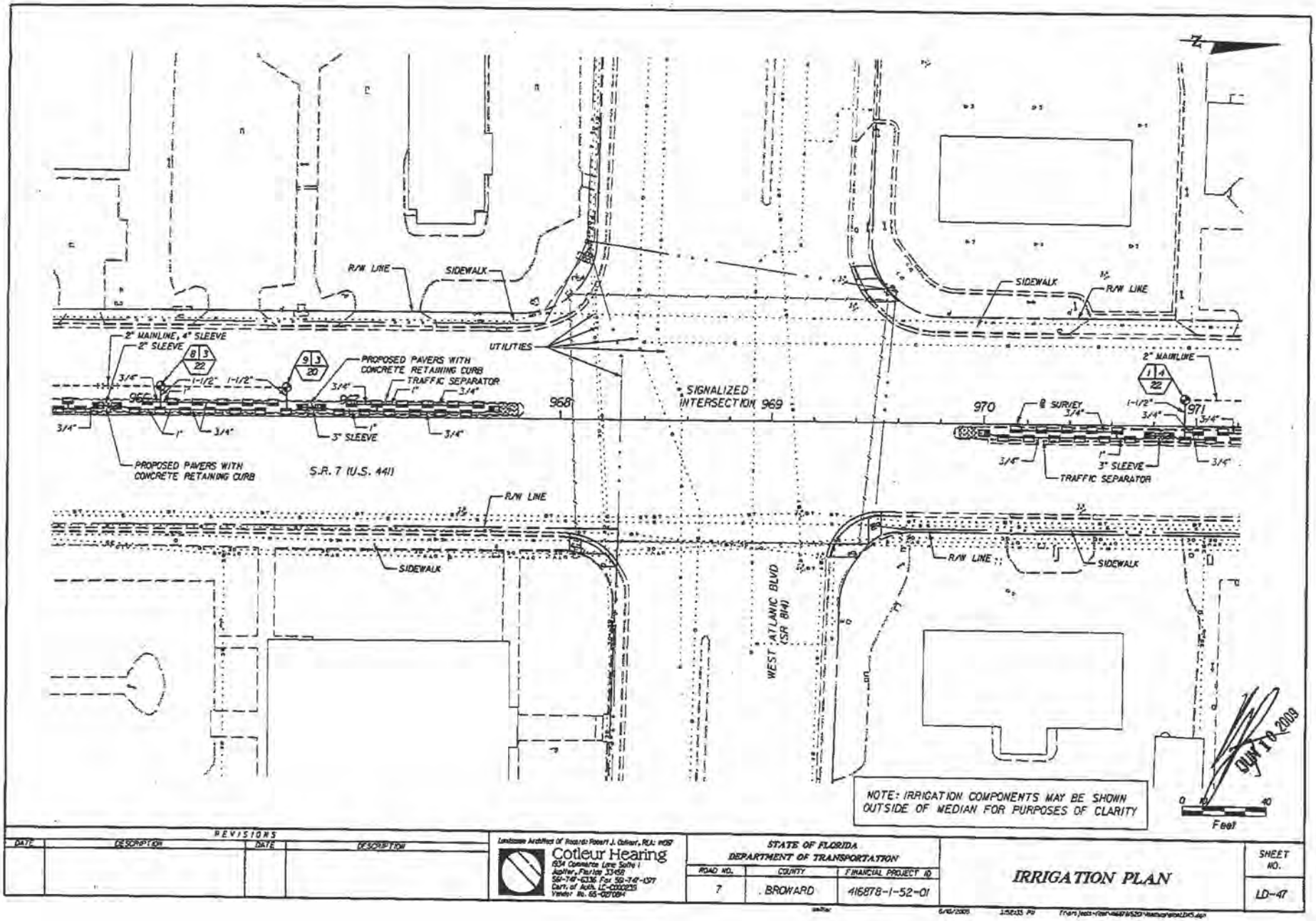

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect of Record: Robert J. Cotleur, RLA: #667
Cotleur Hearing
1934 Commerce Lane, Suite 1
Jupiter, Florida 33458
561-747-6336 Fax: 561-747-1377
Cert. of Auth. LC-0000235
Vendor No. 65-0270184

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-47

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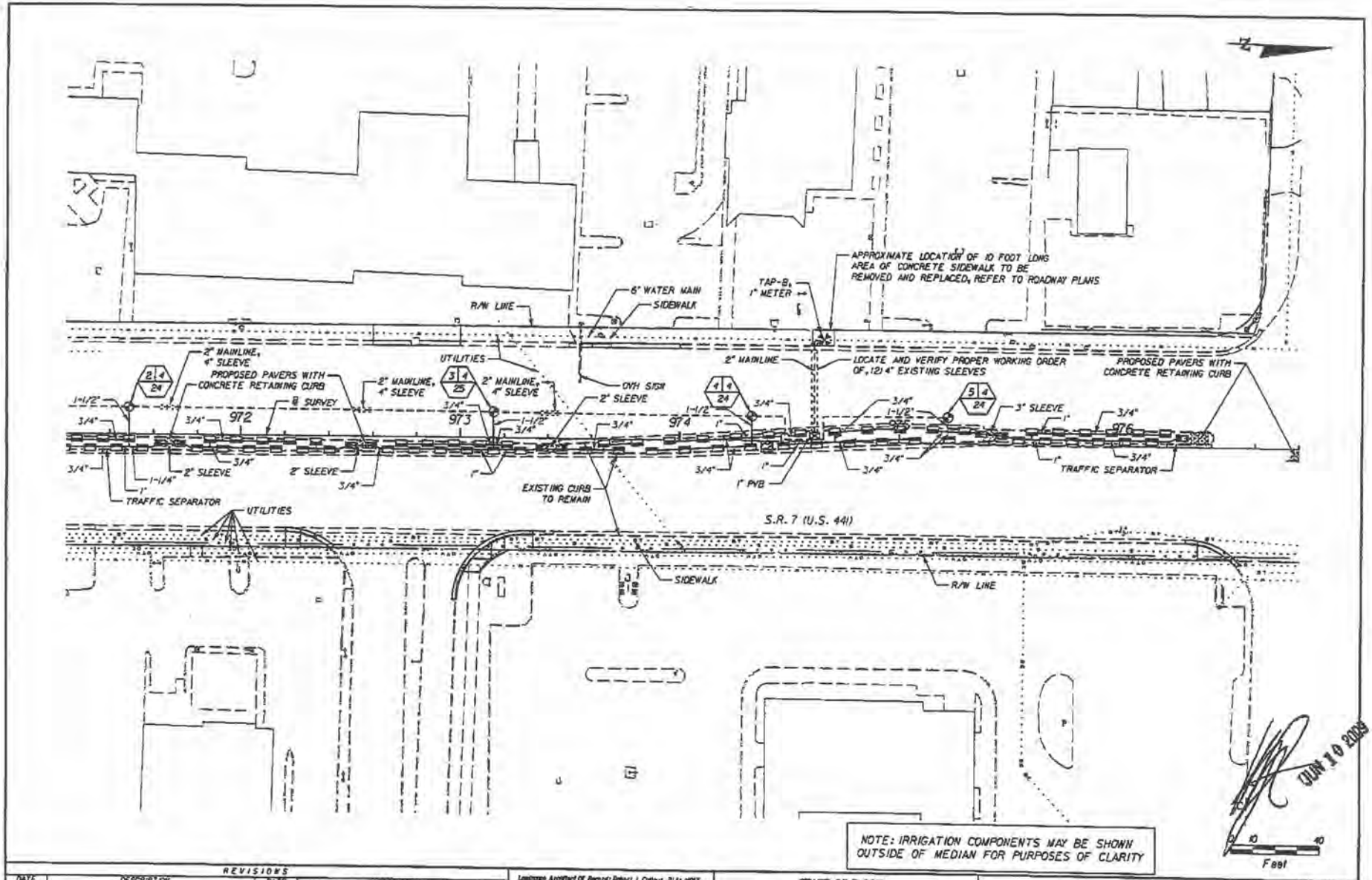


JUN 10 2009

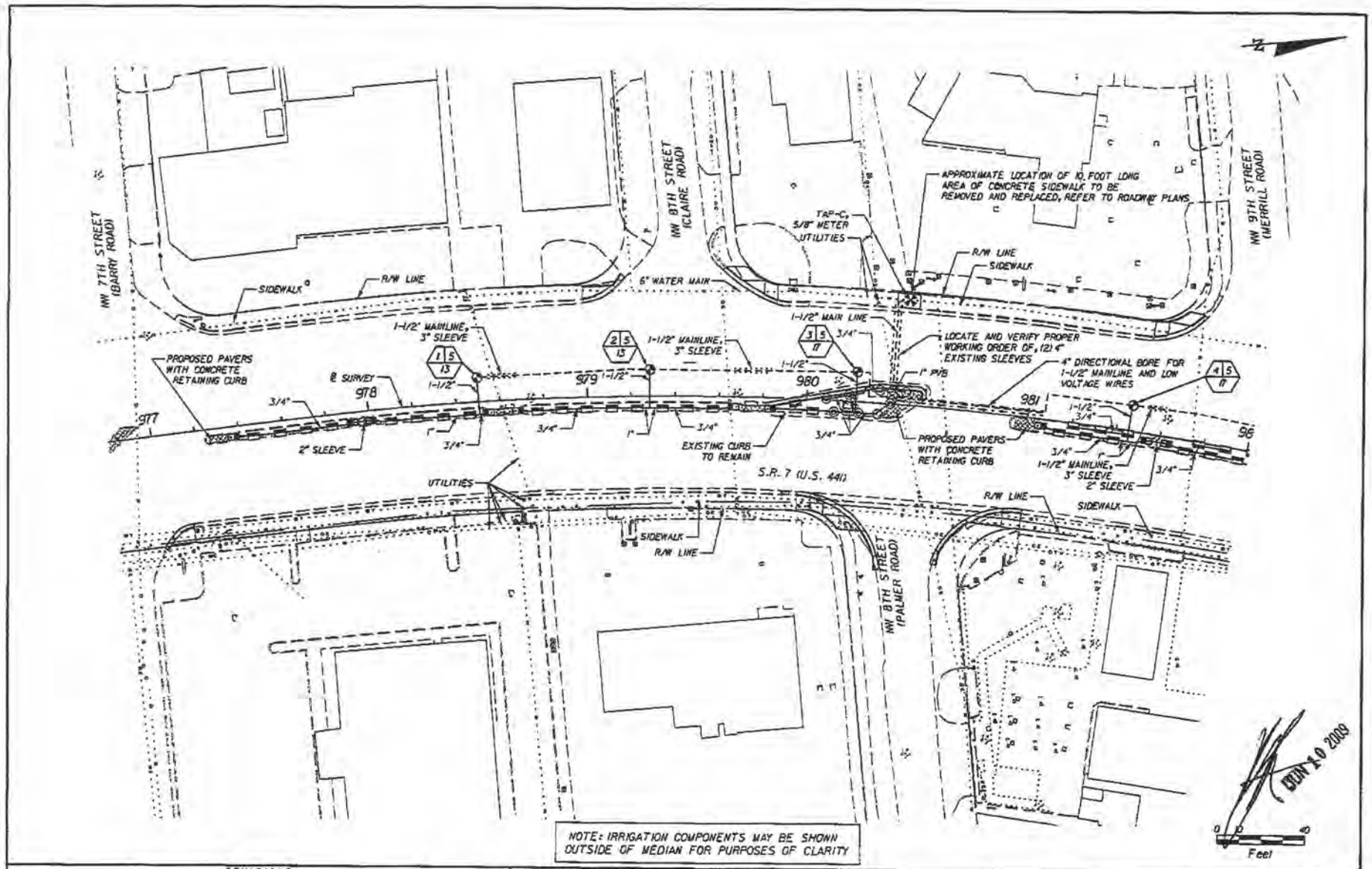
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, RLA: #087
Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0000639
Vendor No. 65-0210847

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
7	BROWARD	416878-1-52-01	

IRRIGATION PLAN

SHEET NO. LD-48



NOTE: IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE OF MEDIAN FOR PURPOSES OF CLARITY

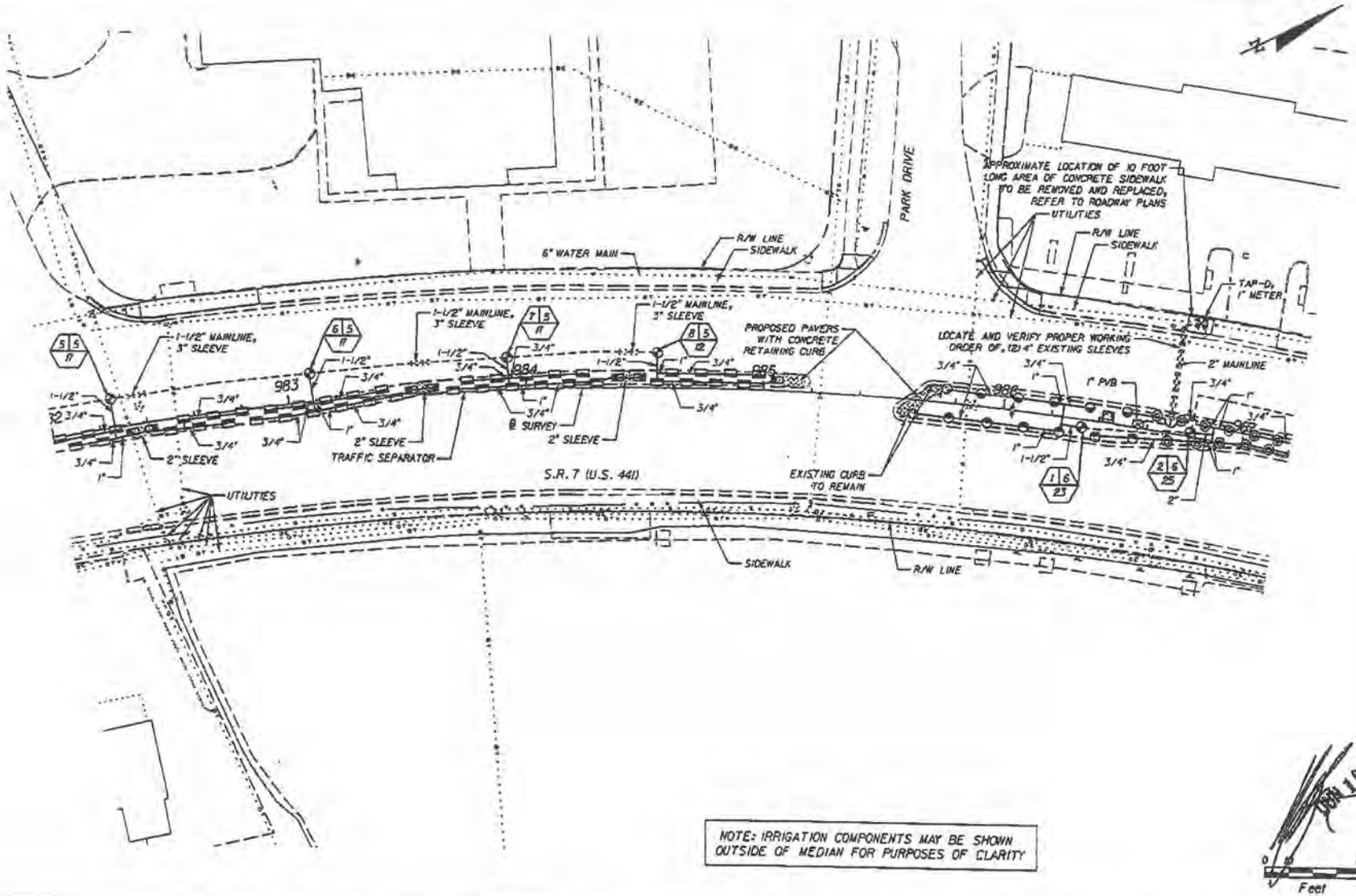
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, FLA: #667
Cotleur Hearing
834 Commerce Loop Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0000339
Vendor No. 65-0870664

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7.	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-49



NOTE: IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE OF MEDIAN FOR PURPOSES OF CLARITY

JUN 10 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Licensed Architect of Record: Robert J. Colleur, R.A. #4015
Colleur Hearing
634 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Corl. of Auth. LC-C000239
Vendor No. 59-0270894

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-50

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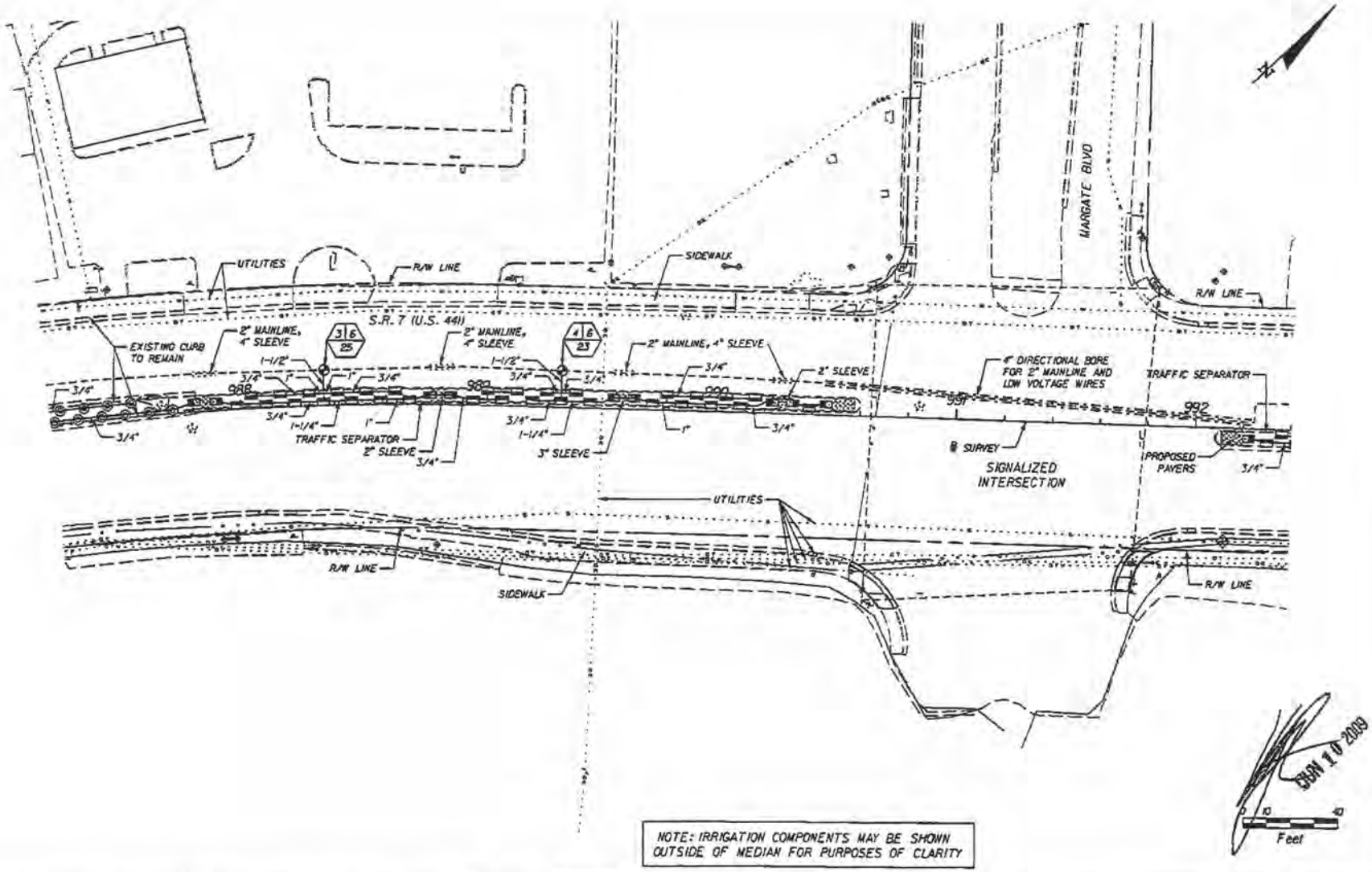


NOTE: IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE OF MEDIAN FOR PURPOSES OF CLARITY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

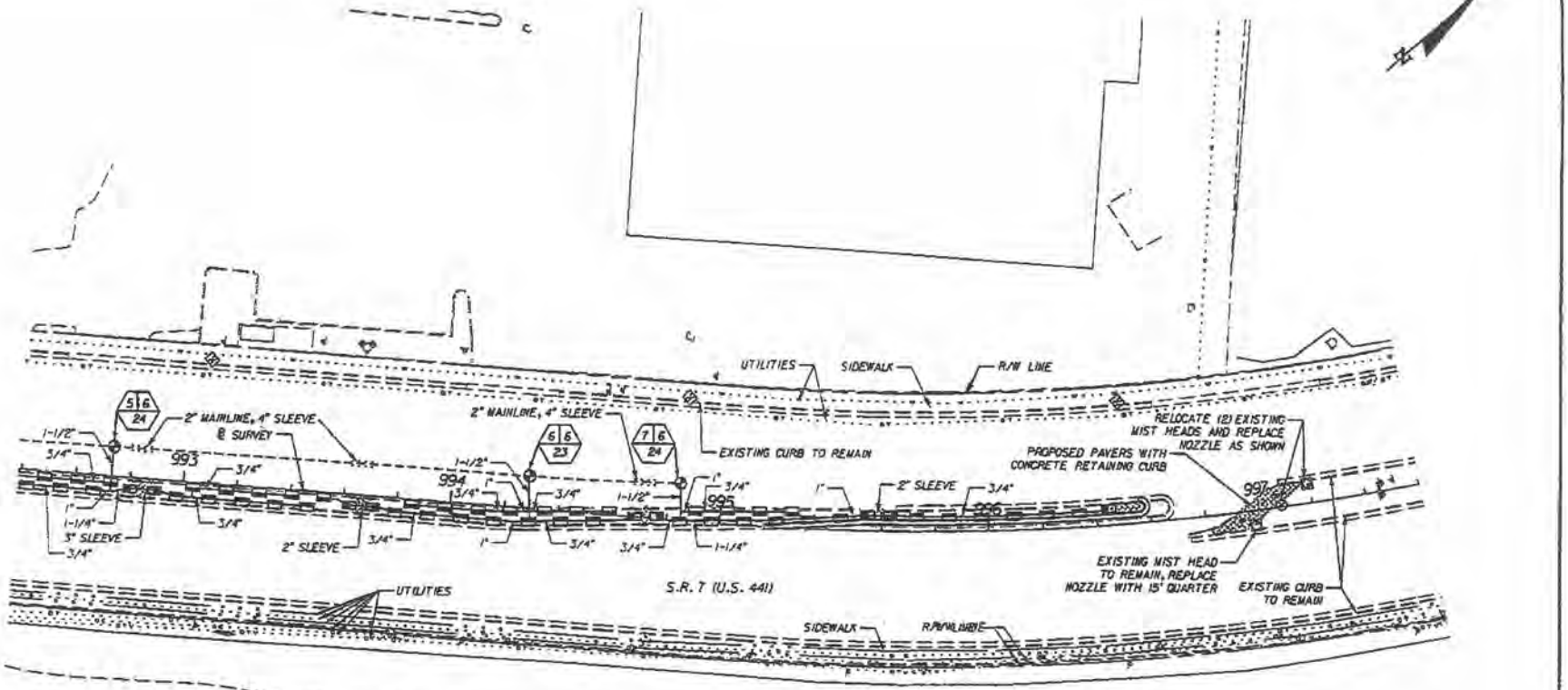
Landscape Architect of Record: Robert J. Cotleur, PLA: 0001
Cotleur Hearing
6534 Corporate Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0000039
Vendor No. 59-0670104

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

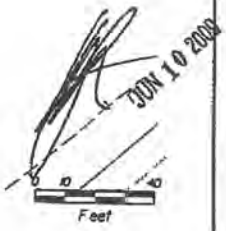
IRRIGATION PLAN

SHEET NO. LD-51

SEAN T O 2019



NOTE: IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE OF MEDIAN FOR PURPOSES OF CLARITY



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, PLA: #652
Cotleur Hearing
6534 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0000239
Vendor No. 65-0270194

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-52

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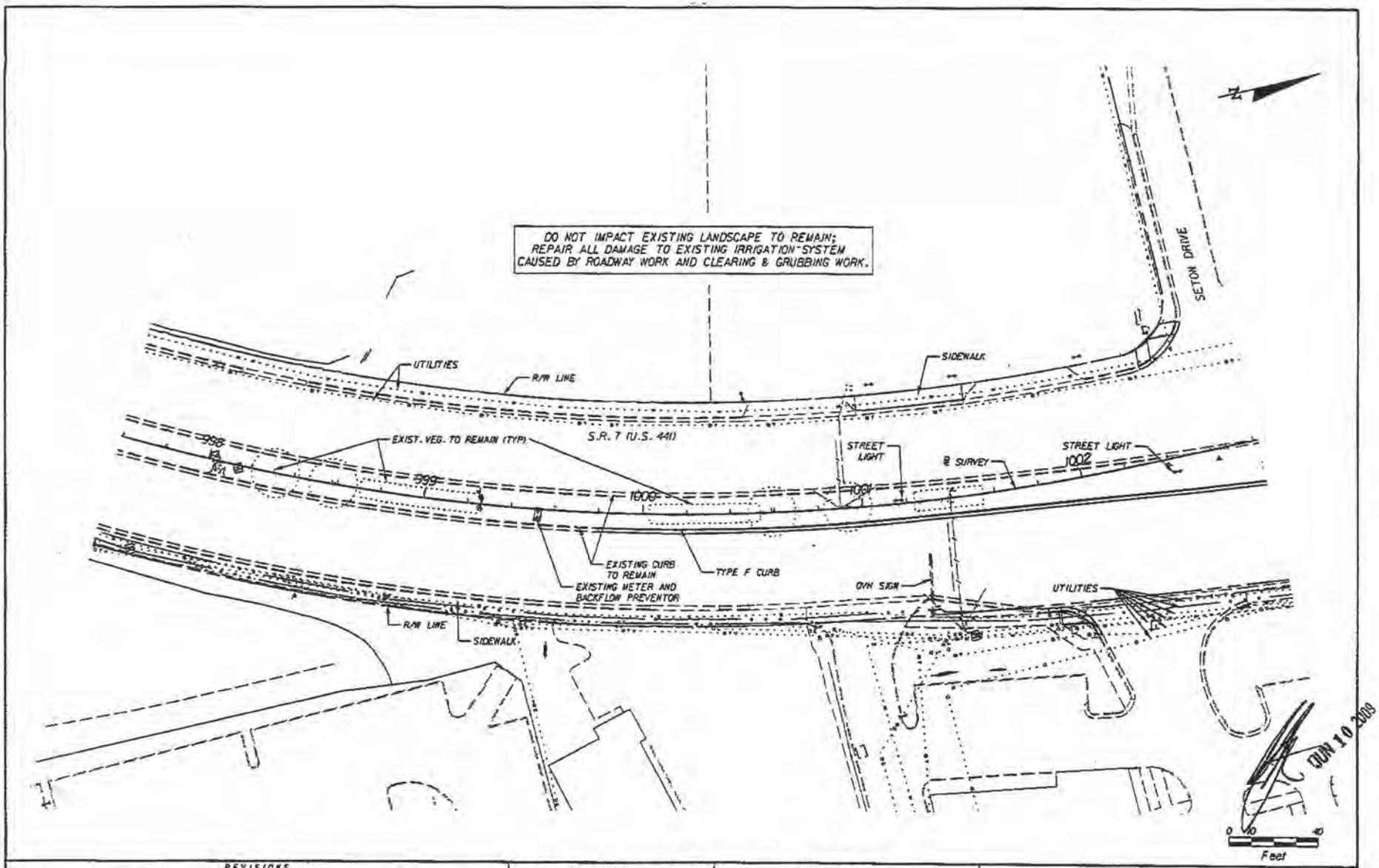

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotteur, FLA: #667
Cotteur Hearing
834 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Certi. of Auth. LC-0002839
Vendor No. 59-0271084

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-53

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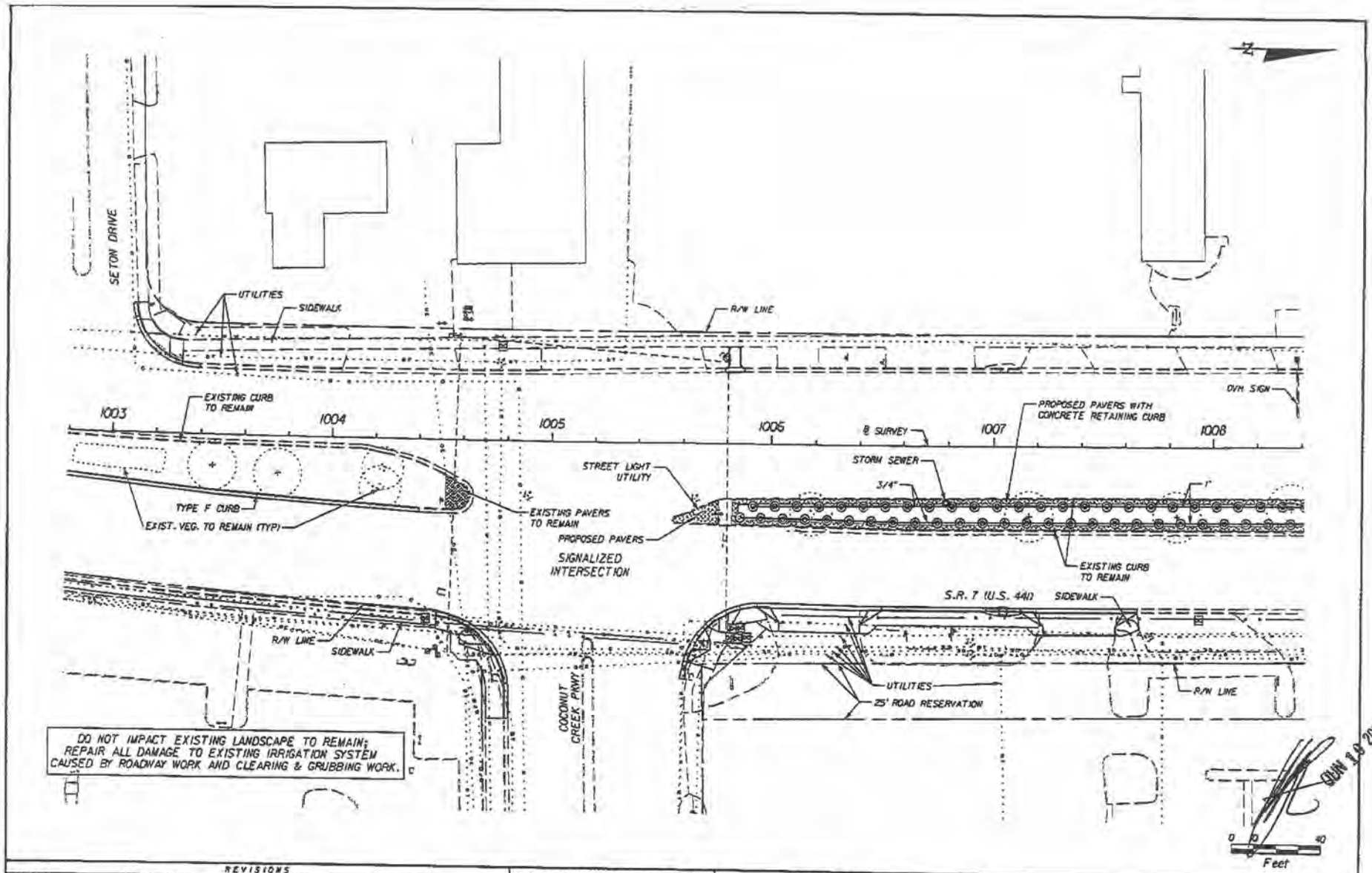

JUN 19 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, FLA: #667
Cotleur Hearing
6134 Corkscrew Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax: 561-747-1377
Cert. of Auth. LC-0000238
Vendor No. 65-0270847

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-54

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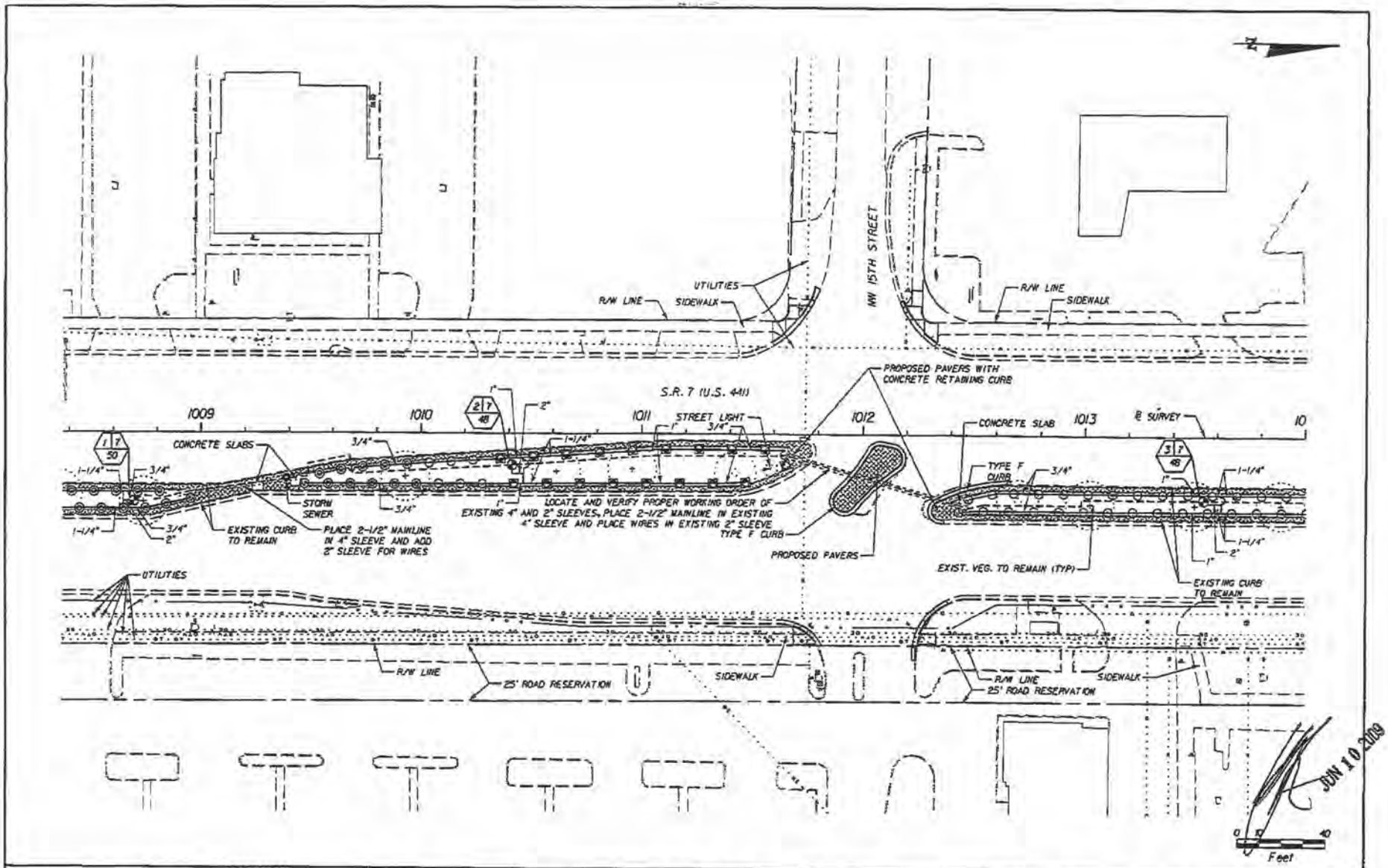
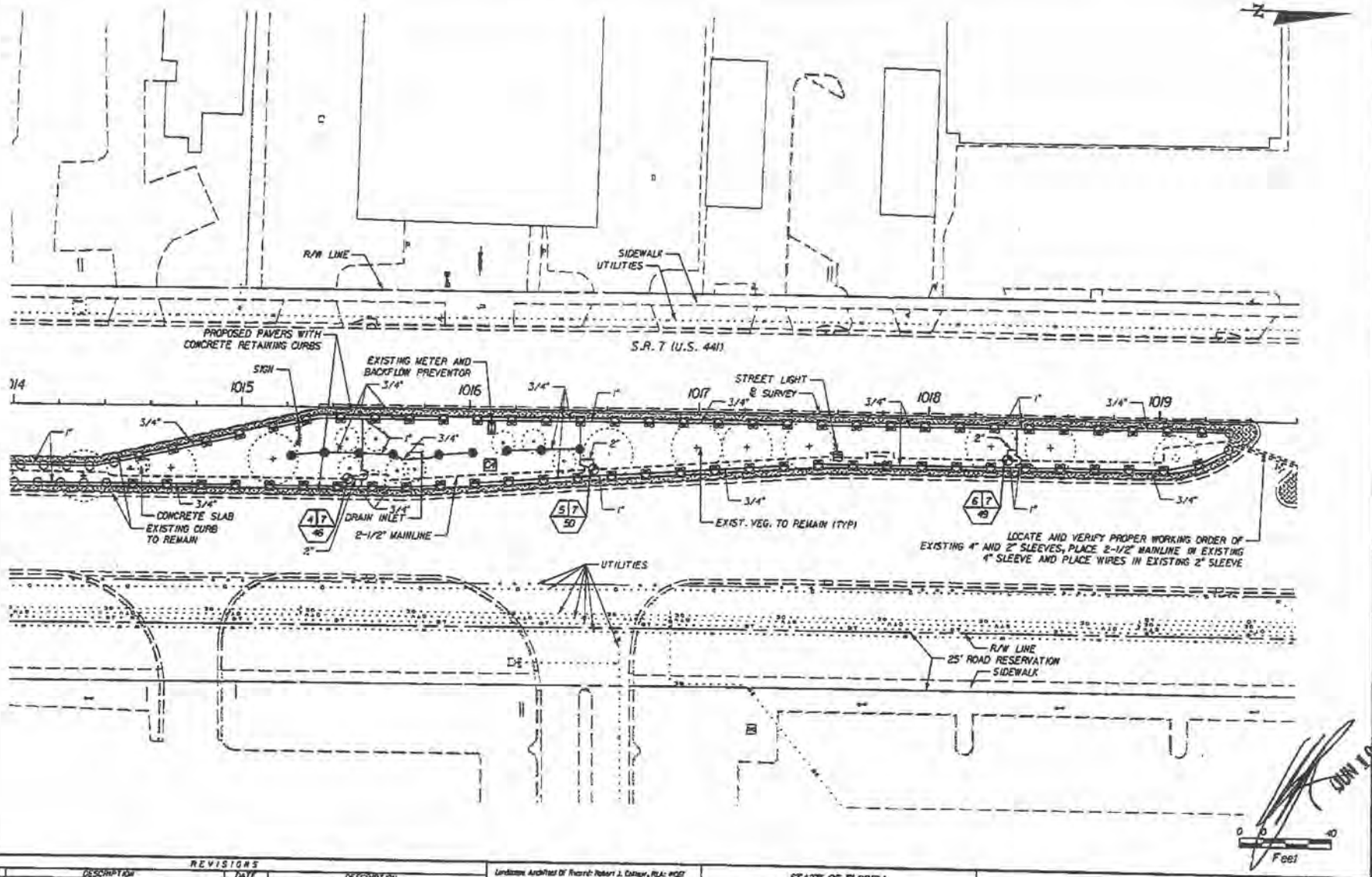


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Colleur, PLA: #667
Colleur Hearing
1854 Commerce Lane, Suite 1
Jupiter, Florida 33458
561-748-6336 Fax 561-748-4371
Cert. of Auth. LC-0000839
Vendor No. F5-4871094

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET NO.
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	IRRIGATION PLAN	LD-55
7	BROWARD	416878-1-52-01		



JUN 10 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotteur, FLA: #667
Cotteur Hearing
634 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0002236
Vendor No. 60-0270184

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-56

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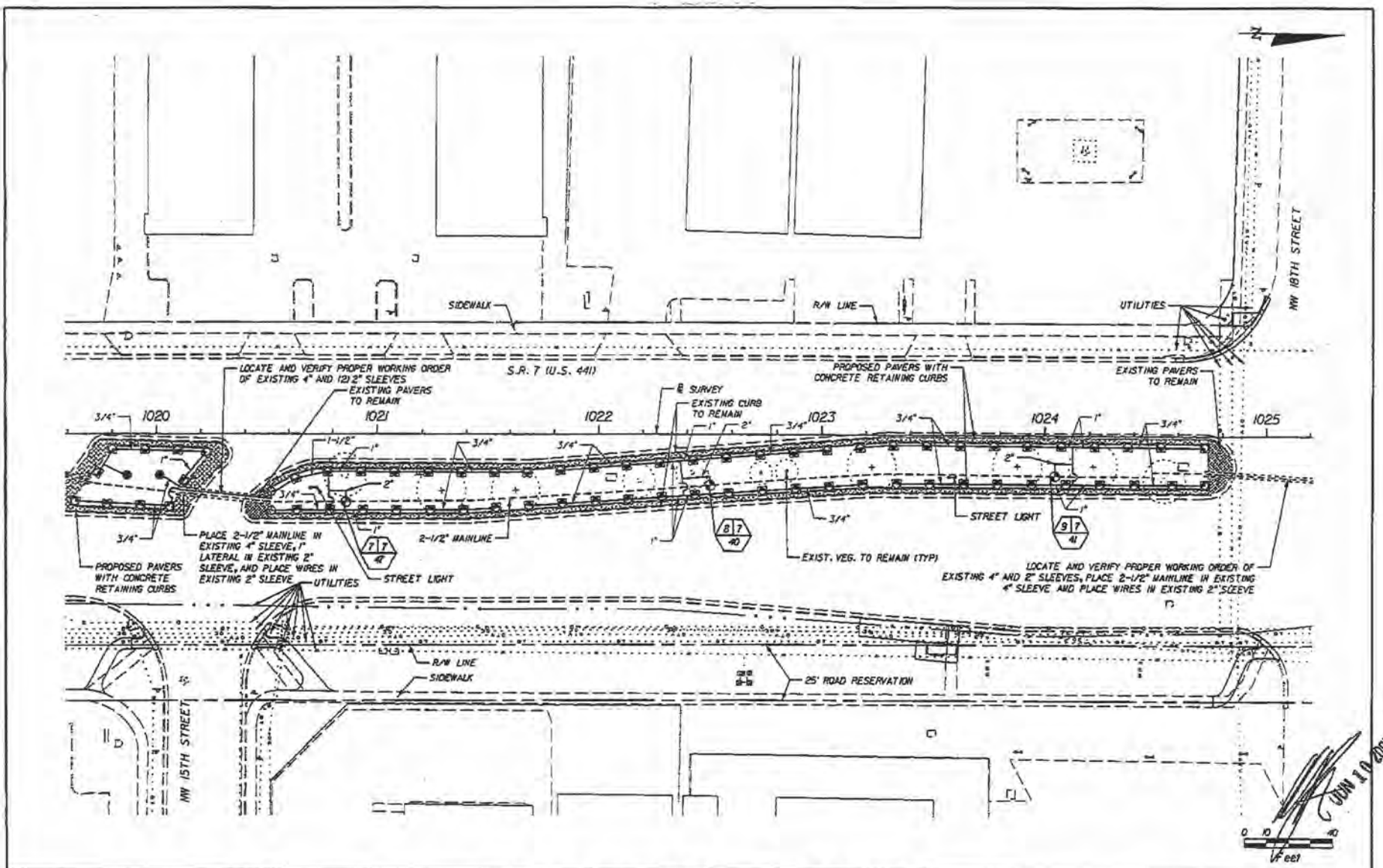


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

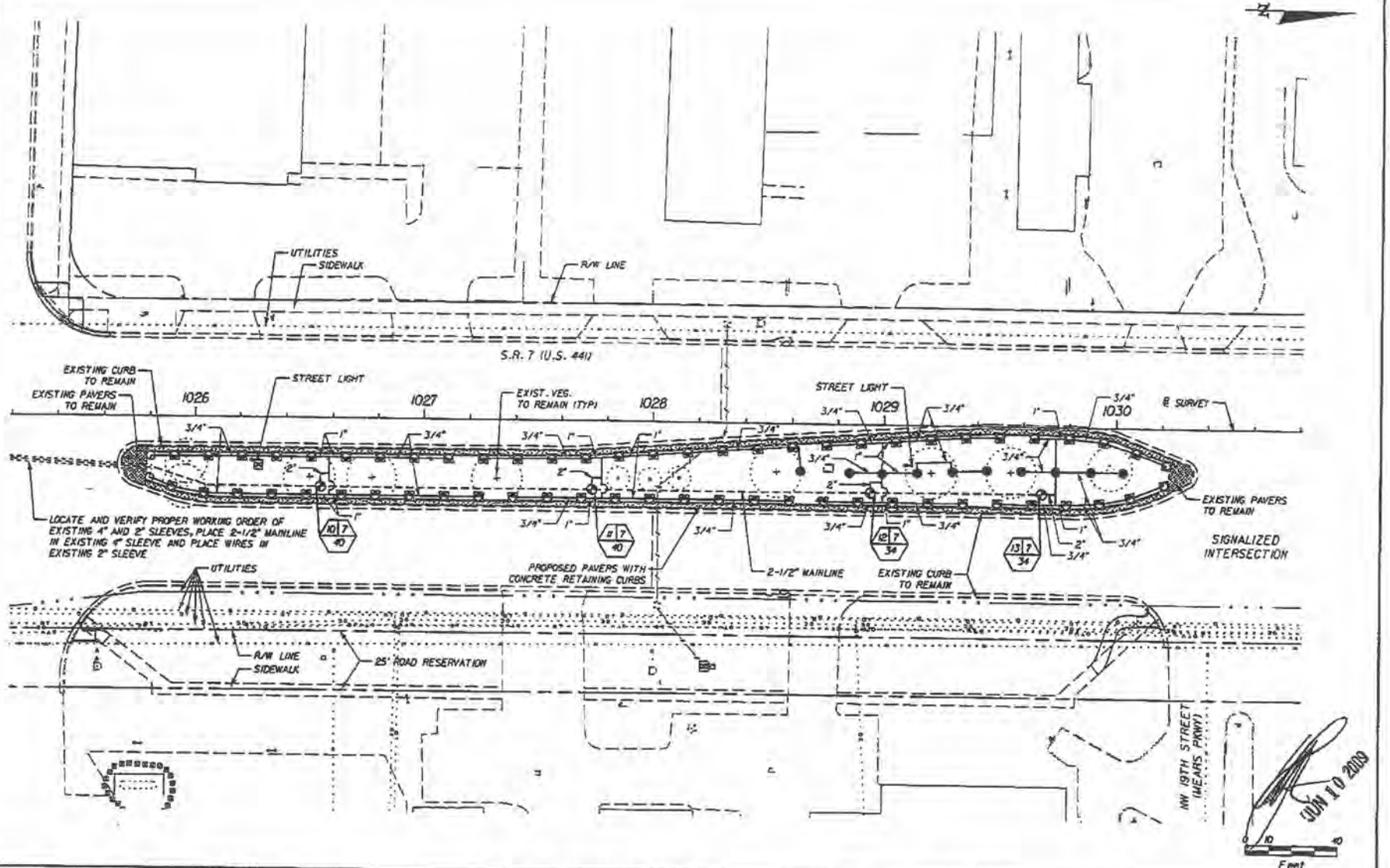
Landscape Architect Of Record: Robert J. Cotleur, PLA: #667
Cotleur Hearing
1634 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-2000259
Vendor No. 65-0270814

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-57

6/10/2009 3:57:40 PM I:\projects\roadway\416878\52\design\plan\LD57.dgn



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert A. Cotleur, RLA: #667
Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000239
Vendor No. 65-0270184

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
7	BROWARD	416878-1-52-01	IRRIGATION PLAN

SHEET NO. LD-58

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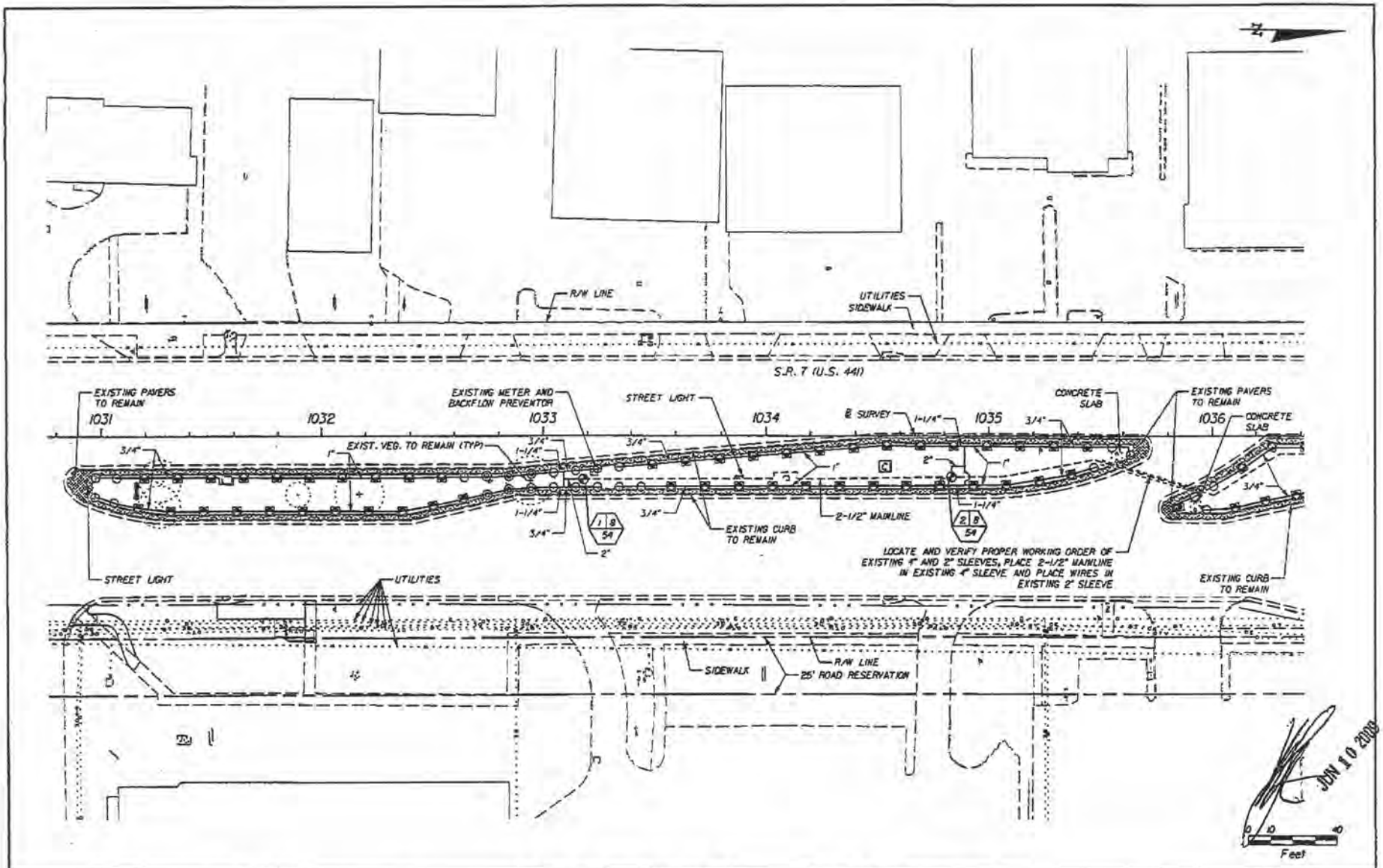


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

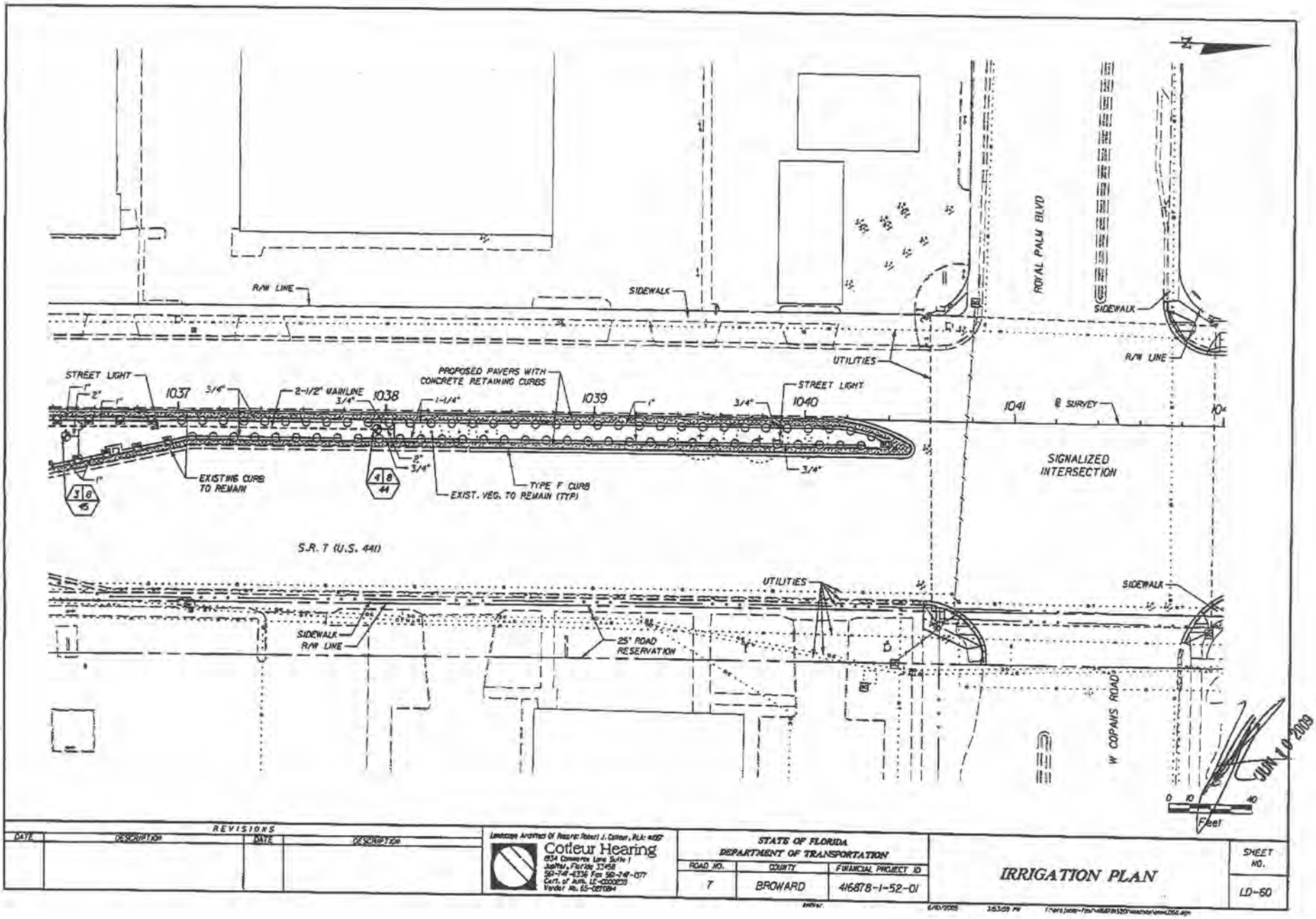
Landscape Architect Of Record: Robert J. Cotleur, FLA. #667
Cotleur Hearing
654 Clearwater Lake Suite I
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0000215
Vendor No. 59-1971064

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-59

6/10/2008 11:13:53 PM I:\projects\416878\520\landscape\plans\LD57.dgn



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

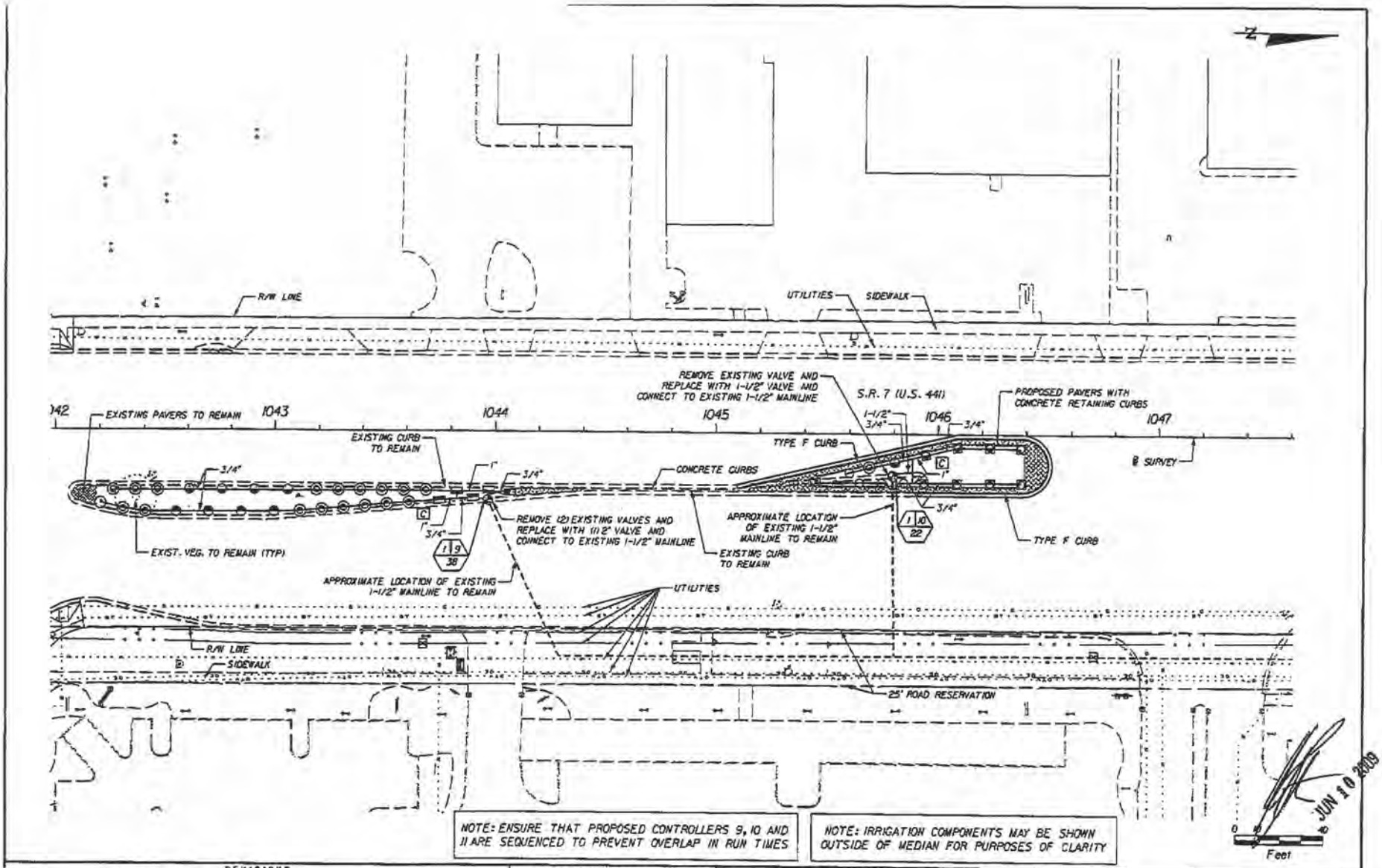
Landscape Architect Of Record: Robert J. Cotleur, PLA: 6067
Cotleur Hearing
634 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-4336 Fax 561-747-0377
Cert. of Auth. LC-0000235
Vendor No. 65-0870847

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-60

6/10/2009 3:53:09 PM



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

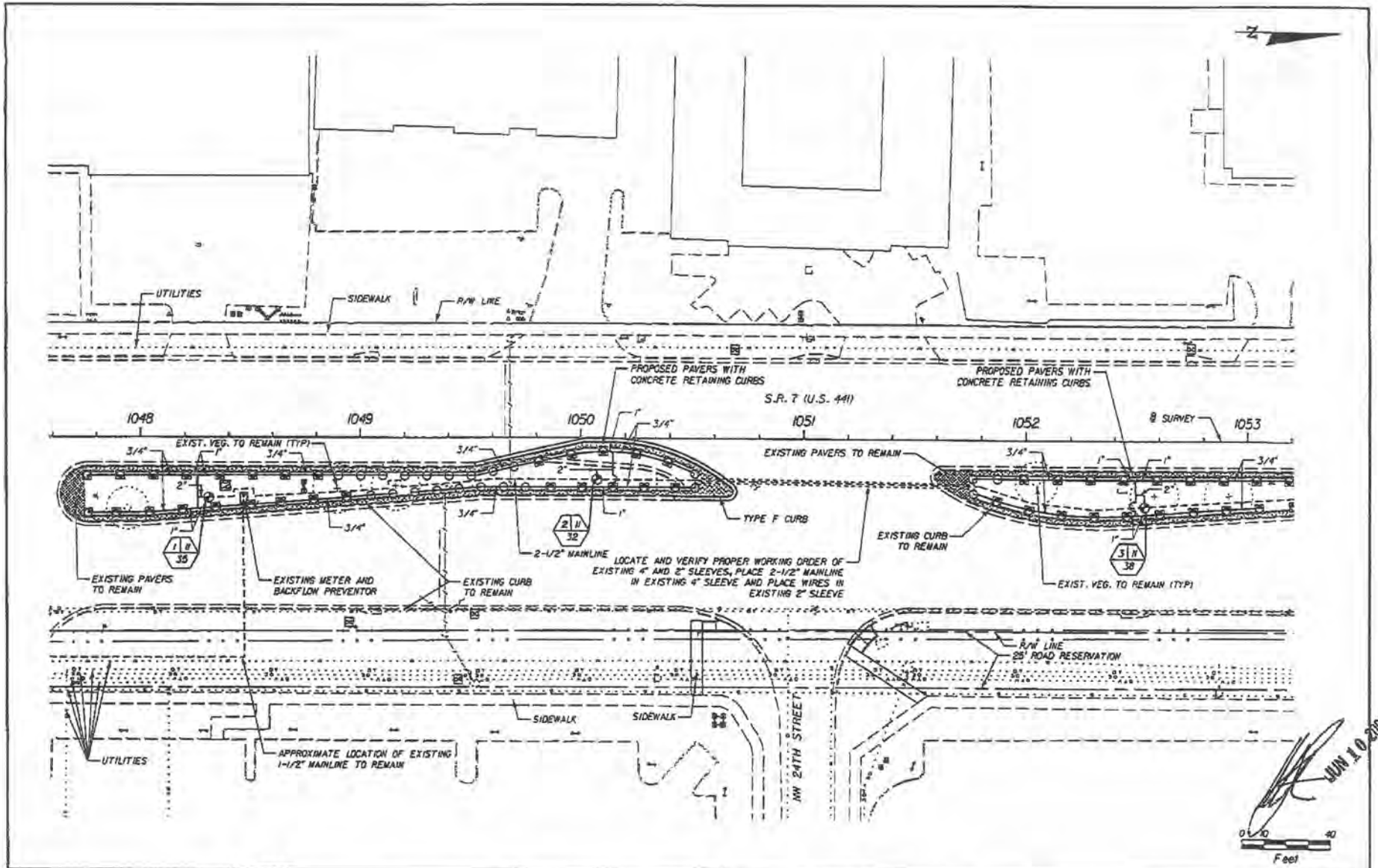
Landscape Architect & Planner Robert J. Cotleur, PLA: #667
Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-745-6336 Fax 561-745-6377
Cert. of Auth. LC-0000215
Vendor No. 59-1821084

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-61

6/10/2009 3:54:06 PM I:\projects-final\416878\52\Plans\Irrigation\LD11.dgn



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

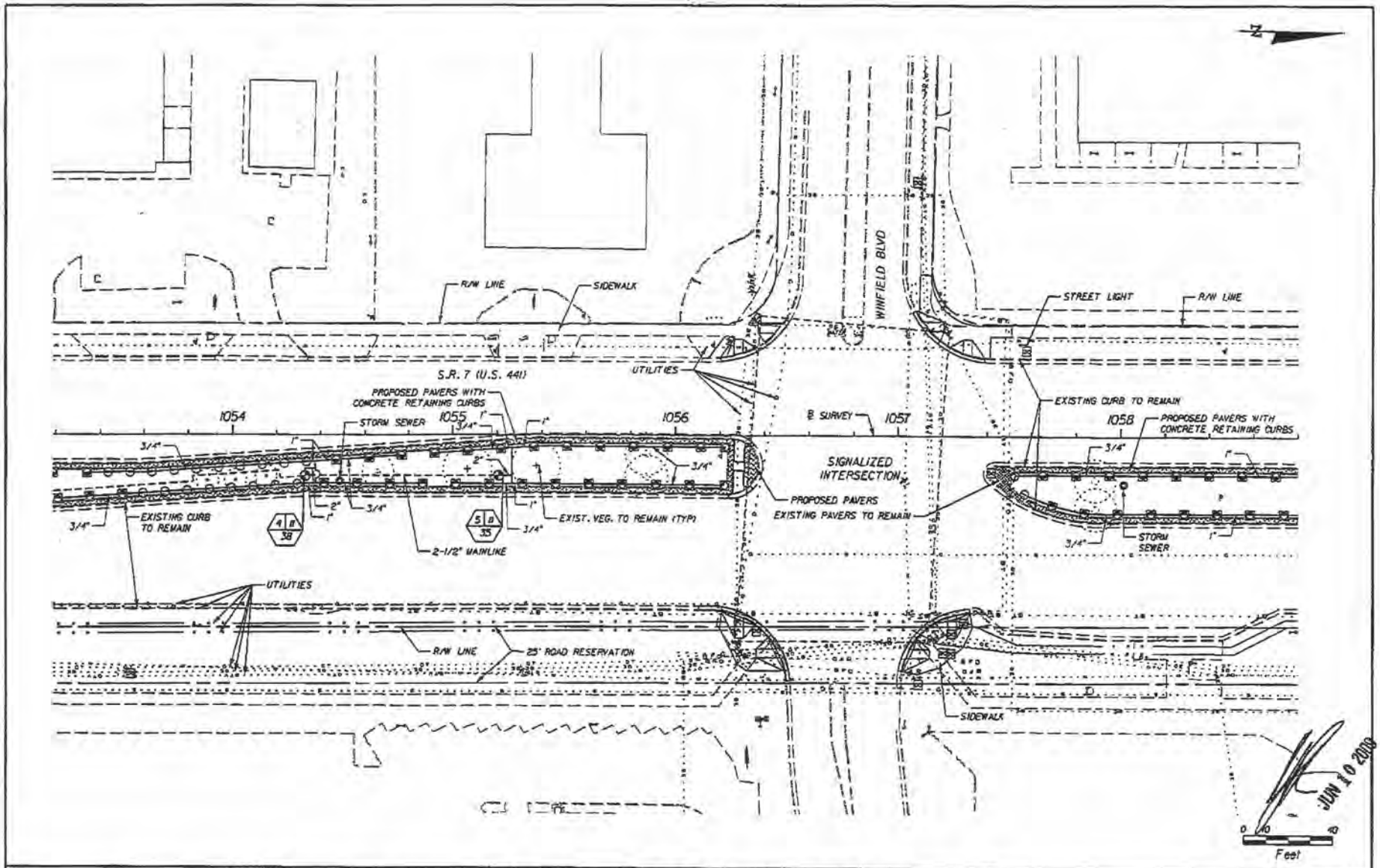
Landscape Architect Of Record: Robert J. Cotteur, RLA: 0667
Cotteur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000239
Vendor No. 65-0870094

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-62

6/10/2009 35x45 Pa

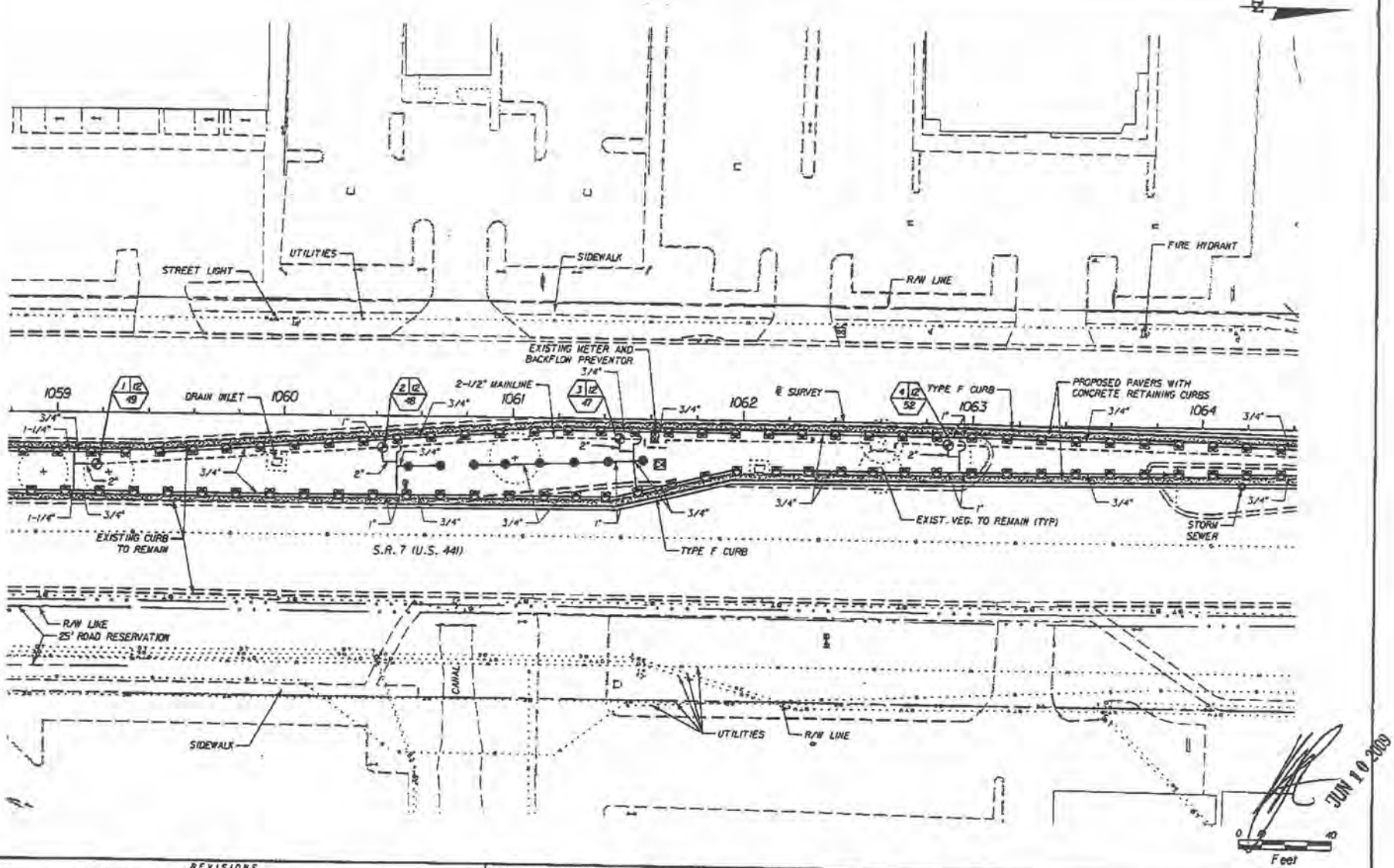


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect & Planner: Robert J. Cotleur, FLA: 0657
Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-741-6336 Fax 561-741-1311
Cert. of Auth. LC-C000239
Vendor No. 65-0270084

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET NO.
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	IRRIGATION PLAN	LD-63
7	BROWARD	416878-1-52-01		

5/19/2008 3:54:15 PM



JUN 10 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect of Record: Robert J. Colleur, FLA: #667
Colleur Hearing
624 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000035
Vendor No. 65-0270894

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
7	BROWARD	415878-1-52-01	

IRRIGATION PLAN

SHEET NO. LD-64

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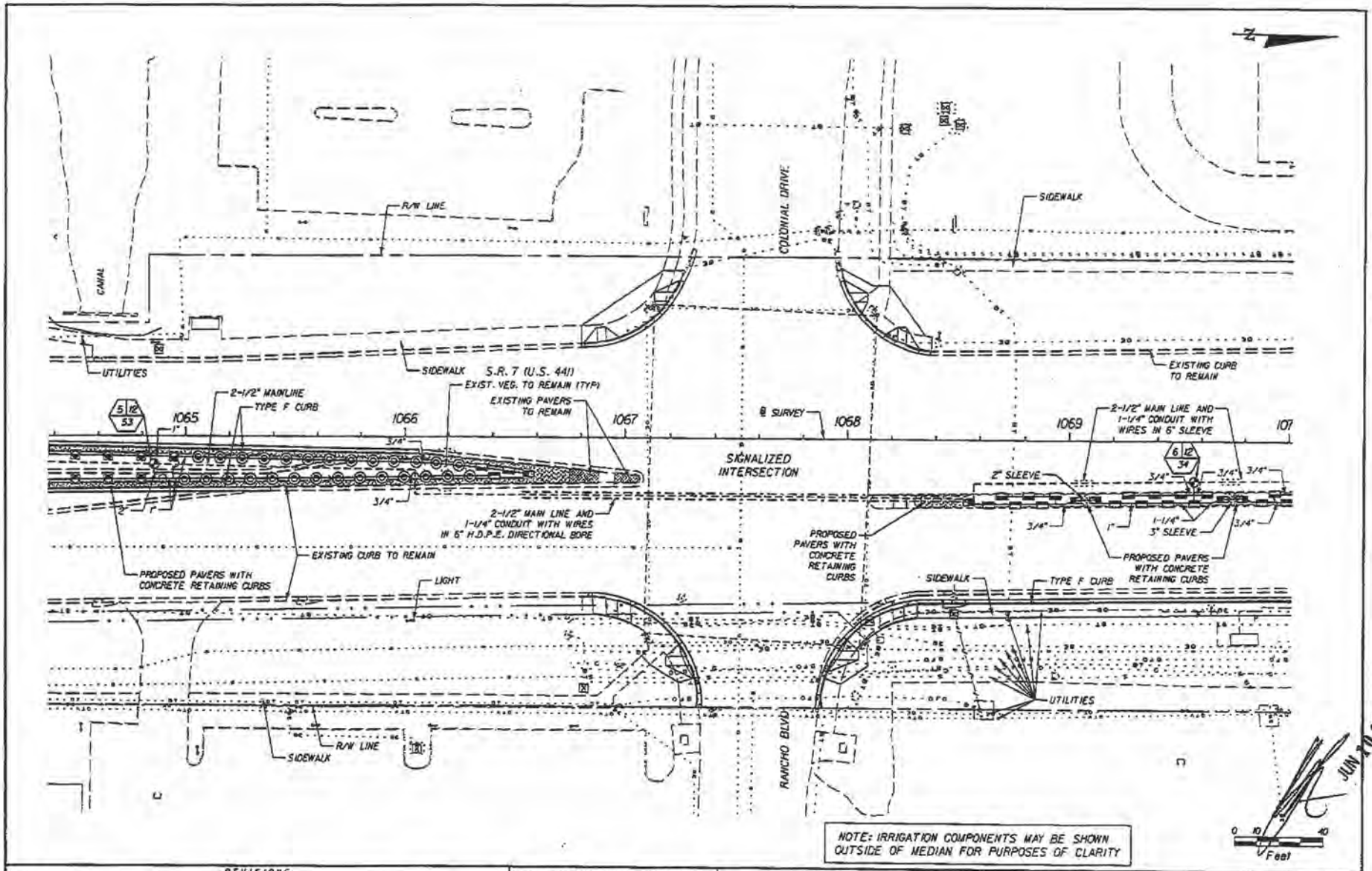

NOTE: IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE OF MEDIAN FOR PURPOSES OF CLARITY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Colleur, PLA: #653
Colleur Hearing
834 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000239
Vendor No. 65-0270184

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-65

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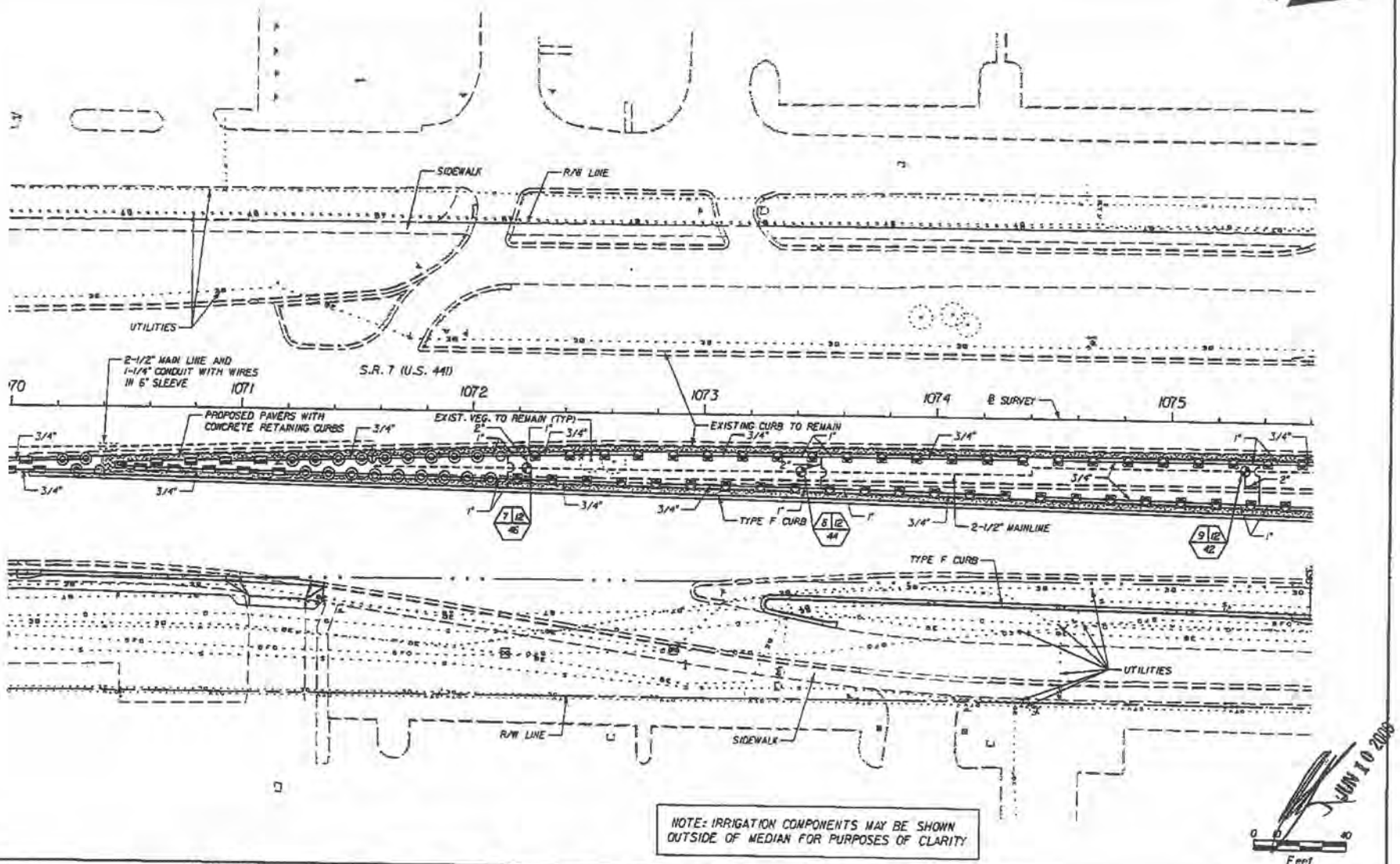
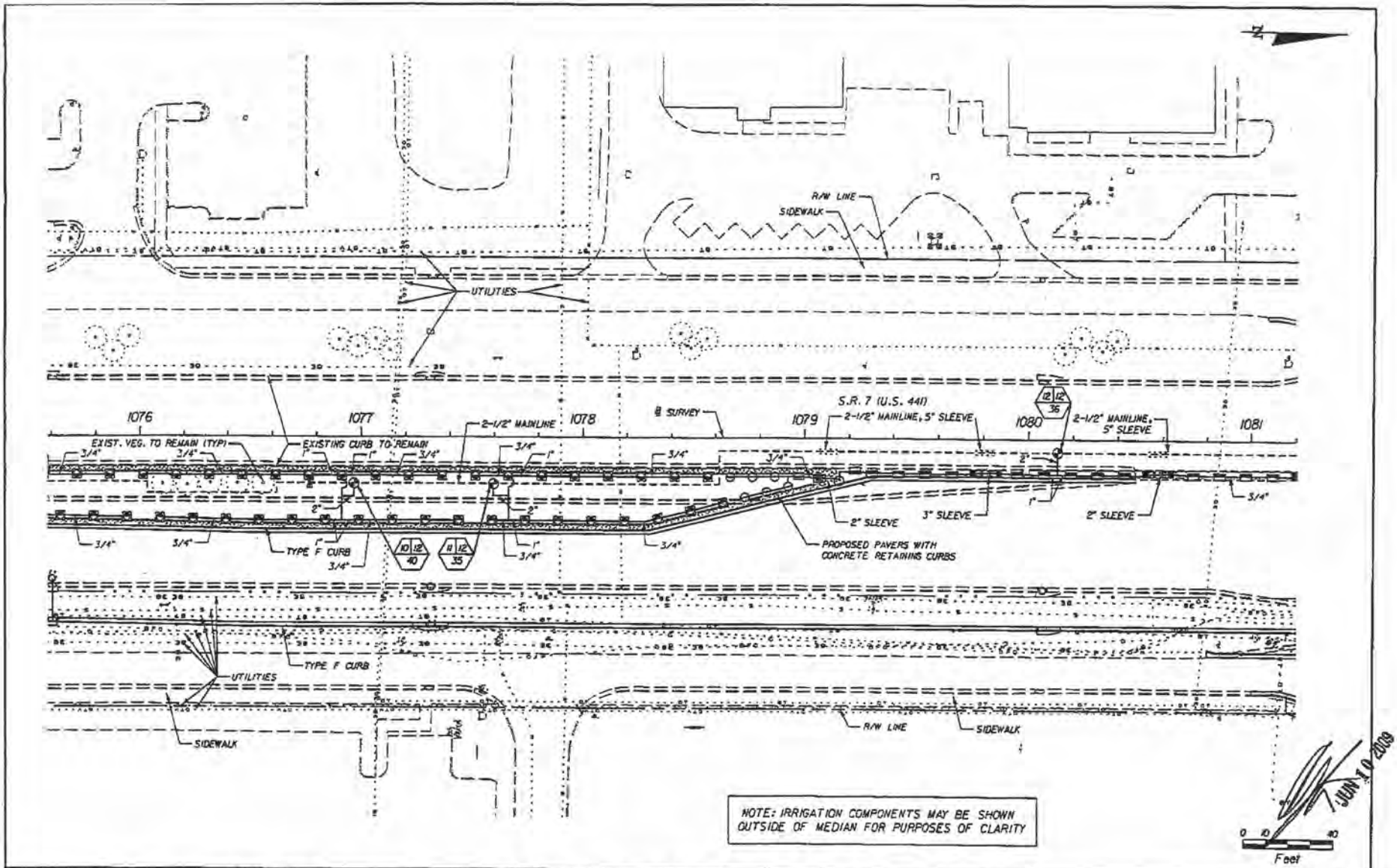


JUN 10 2008

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, FLA: #667
Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0000239
Vendor No. 65-0210814

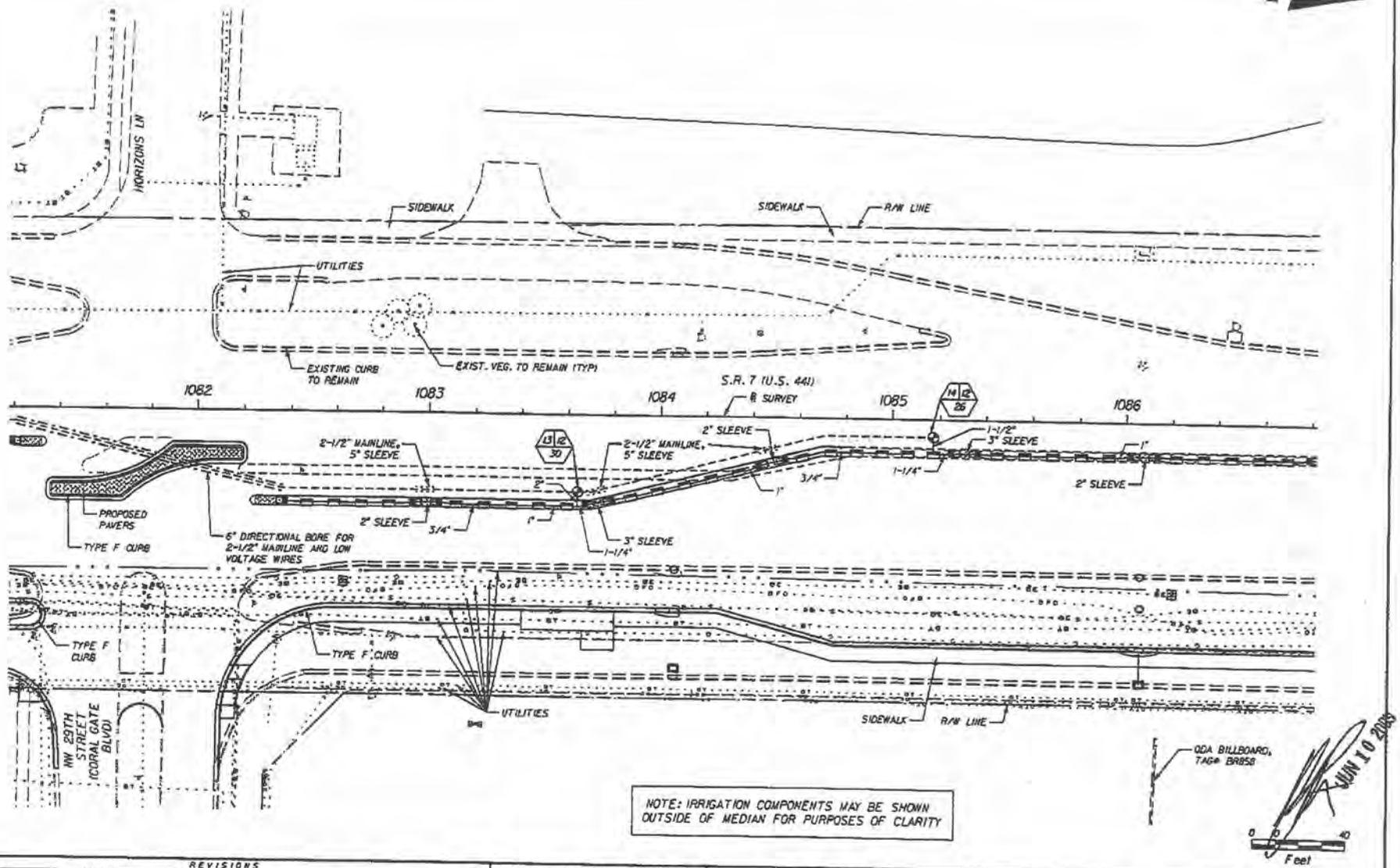
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET NO.
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	IRRIGATION PLAN	LD-66
7	BROWARD	416878-1-52-01		



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Cotleur, FLA: 1407
Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-C000210
Vendor No. 65-0270484

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
7.	BROWARD	416878-1-52-01		LD-67



RECEIVED JUN 10 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

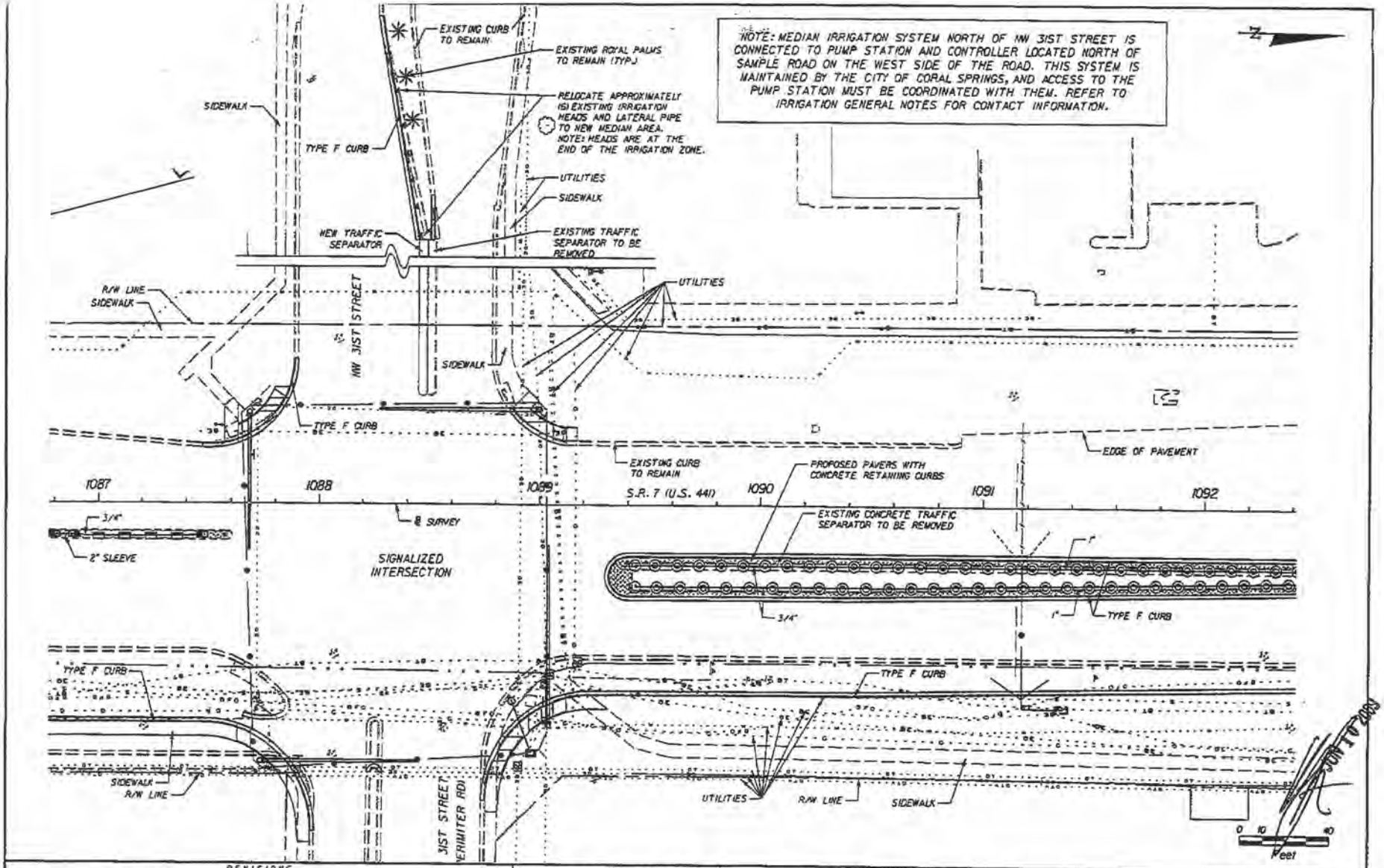
Landscape Architect Of Record: Robert J. Cotleur, FLA: 0001
Cotleur Hearing
634 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Cert. of Auth. LC-0000235
Vendor No. 65-0270814

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-68

6/10/2009 3:54:54 PM I:\Projects-Year\416878\52\Roadway\plans\LD54.dgn



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

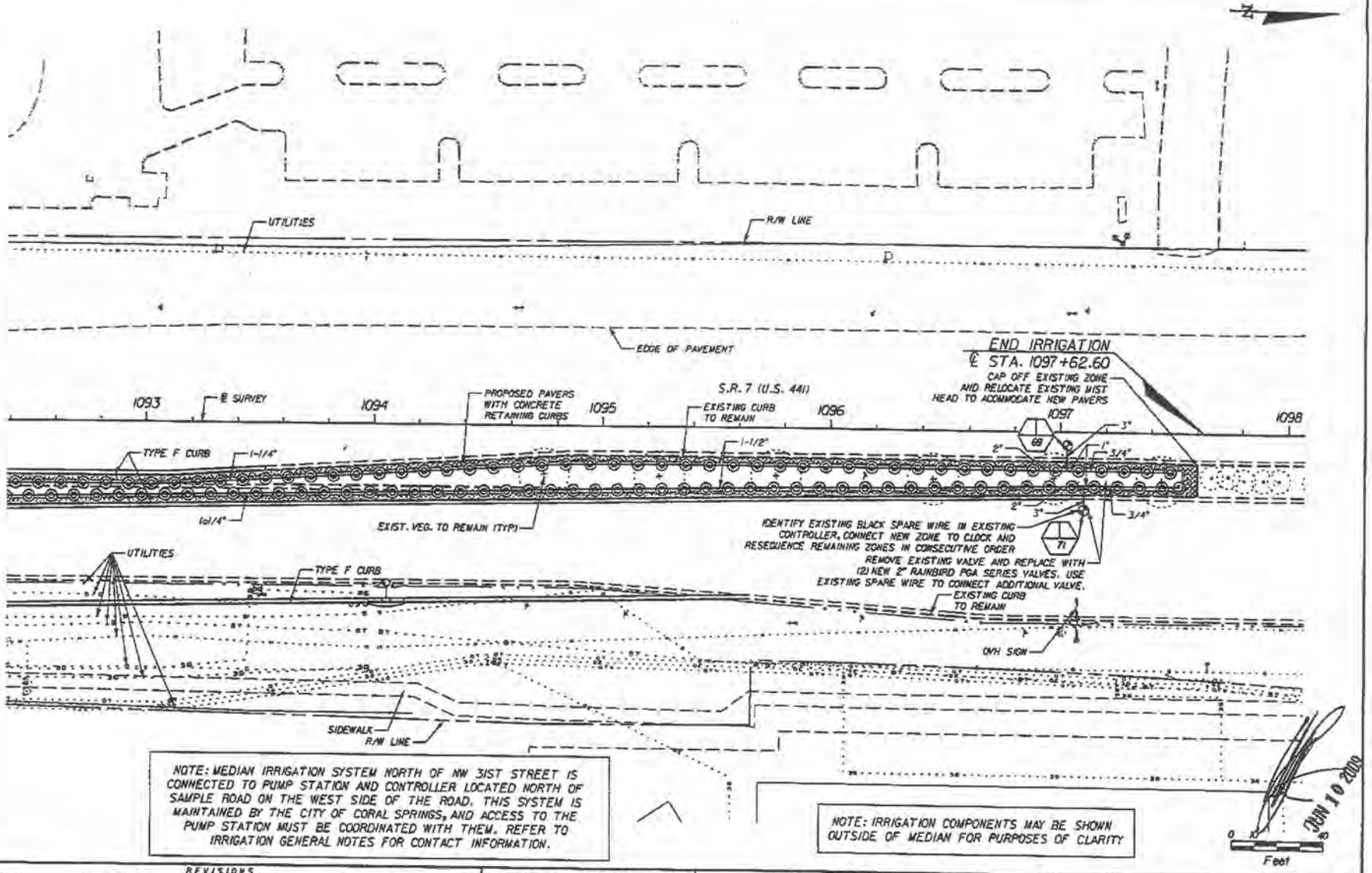
Landscape Architect Of Record: Robert J. Cotleur, PLA: #107
Cotleur Hearing
1934 Commerce Lane Suite 1
Jupiter, Florida 33458
561-747-6336 Fax 561-747-1377
Dept. of Auth. LC-0000239
Vendor No. 65-0670814

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-69

6/8/2023 3:44:02 PM



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect Of Record: Robert J. Colleur, PLA: #667
Colleur Hearing
834 Commerce Lane, Suite 1
Jupiter, Florida 33458
561-746-6336 Fax: 561-746-1377
Cert. of Auth. LC-C000235
Vendor No. 59-0270194

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	416878-1-52-01

IRRIGATION PLAN

SHEET NO. LD-70

6/10/2009 3:55:09 PM

SECTION NO.:	**86100000**
FM NO. (s):	**416878-1-52-01**
COUNTY:	**BROWARD**
S.R. NO(s).:	**7 (US 441)**

EXHIBIT C

MAINTENANCE PLAN

This Exhibit forms an integral part of the DISTRICT FOUR (4) 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):	**SR 7 (U.S. 441)**
Project Limits:	**SR 7 (U.S. 441) from SW 8th Court (M.P. 17.040) to North of NW 31st Street (M.P. 20.592)**
FM No(s):	**416878-1-52-01**
Maintaining Agency:	**City of Margate, (Mr. Emilio Estaban Ph. 954-972-0828)**
RLA of Record:	**Robert J. Cotleur, R.L.A. (#1067)**
Date:	**June 10, 2009**

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 is recommendations prepared by the 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 plant 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 that 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, and to specific pruning heights maintaining clear visibility for motorists, and vertical clearance for pedestrian, bicyclist, and truck traffic where applicable. Visibility windows must be maintained free of view obstructions and all trees and palms (with particular attention to fronds and fruit) maintained to prevent potential roadway and pedestrian hazards. 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 should be noted on the planting plans. (See Specific Requirements and Recommendations per Approved Landscape & Irrigation Design for these guidelines). The understory plant materials selected for use within the restricted planting areas (Limits of Clear Sight) of the medians 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 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 meet *FDOT Maintenance Rating Program* (MRP).

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

Weeding/Herbicide:
All planting areas shall be maintained as weed free as practicable enlisting integrated pest management practices in areas specified on the plans and by maintaining proper mulch levels. Extreme care is recommended if using a chemical herbicide to avoid overspray onto plant

materials. Any damage resulting from overspray is the applicator's responsibility to restore the plantings to the approved plans.

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

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

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

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

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

Hardscape (Landscape Accent Lighting)
Landscape accent lighting shall be maintained in such a manner as to prolong the life of the lighting fixture and prevent potential safety hazards. If the lighting fixtures and their system become damaged, they shall be replaced with the same type and specification as the approved plan.

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.

Website: Series 600 Traffic Control through Work Zones
http://www.dot.state.fl.us/rddesign/DesignStandards/Standards.htm

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.

Website: FDOT Outdoor Advertising Database
http://www2.dot.state.fl.us/rightofway/Default.aspx

Also, reference the Florida Highway Beautification Program website link for Vegetation Management at ODA signs for the Florida Statutes and Administrative Codes related to Vegetation Management at Outdoor Advertising Signs and Permit Applications for Vegetation Management and Outdoor Advertising Signs determining Mitigation Value of Roadside Vegetation.

Website: FDOT Environmental Management office for Landscape Architects
http://www.dot.state.fl.us/emo/beauty/FLA.shtm

Specific Project Site Maintenance Requirements and Recommendations:
The landscape design for the medians consists of existing trees and palms with supplemental trees and palms and shrubs. There are some existing paver areas to remain and the medians will receive new paver strips around the perimeter and at the 'noses' as an aesthetic and functional element. These paver areas provide the maintenance workers with areas for access and lay down space without having to disturb the landscape or sod areas. In addition they will provide protection for the landscape from vehicles running over the curbs and the ends of the medians. No new trees or palms will be added at the edges of the rights of ways.

The extent of irrigation improvements varies greatly from entirely new systems, including new (potable) water sources, to new systems downstream of existing water meters, to minor modifications and expansions to existing systems. In some areas the existing systems will remain undisturbed.

The city of Margate also requested that the existing, solid concrete traffic separators be removed and replaced with new curbing that will also have landscape and irrigation added. These traffic separators vary in width from 5' to 30" wide (between the back of curbs) and therefore only groundcovers and shrubs could be added, (no trees). Areas of pavers were also incorporated to protect the ends of the medians and provide some maintenance space. The city understands that the landscape within these separators can be damaged from vehicular traffic and it will be important to repair it soon if and when it occurs. For this reason, the shrub materials proposed in these areas is only the hardiest and most readily available species.

The overall design is intended to be relatively low maintenance. All shrubs within sight restricted areas must be maintained at a low height as shown in the typical median section detail in the plans and Index #546. All other shrubs and vegetation will be trimmed as needed to promote a uniform and healthy appearance and to meet all FDOT safety criteria.

Native grasses, such as Sand Cordgrass, Fakahatchee and Florida Gama Grass were utilized as 'theme' shrub materials for the wider median areas within the project with their main purpose being to prevent pedestrians from crossing the medians, through the landscape. The most important maintenance activity for these grasses will be to be cut them back once per year to generate re-growth, and to prevent them from choking themselves out with the biomass they create as they mature. This trimming should be done as close to the ground as possible and

should be done in the spring time before the start of the rainy season, (April or May). For best results, remove all biomass from the trimming work off site.

This project received design variations to allow existing trees to remain as well as proposed trees to be added within median taper areas in accordance with specific restrictions that were determined in coordination with input obtained from the FDOT District Design Engineer. The restrictions included only proposing new trees in median areas that are 12' or wider (between the back of curbs), and not within 145' of the end of the median, or turn lane. A review of crash history data showed that there was no safety problems associated with the existing trees.

There is one ODA sign within the project limits and the view zones have been approved and are shown in the plans.

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.

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://www.treespecialists.com/pdfs/pruningstandards.pdf

Florida Department of Agriculture and Consumer Services, Division of Plant Industry, *Florida Grades and Standards for Nursery Stock*, available for purchase
http://www.doacs.state.fl.us/pi/plantinsp/publications.html

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/rd/RTDS/08/544.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/rd/RTDS/08/546.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/rd/RTDS/08/700.pdf

Florida Department of Transportation, *FDOT Plans Preparation Manual (PPM) Vol. I Chapters 2.11.5, Horizontal Clearance to Trees; Table 2.11.9 Horizontal Clearance and Clear Zone; Figure 4.1.2 Clear Zone; and Table 25.4.11.1 Clear Zone Width (feet) and Table 25.4.14.6 (for existing) trees*
http://www.dot.state.fl.us/rddesign/PPMManual/2008/Volume1/zChap02.pdf

Florida Department of Transportation, *FDOT Standard Specifications for Road and Bridge Construction, Section 580 Landscape Installation*
http://www.dot.state.fl.us/specificationsoffice/Implemented/CurrentBK/CurrentSpecs/580.pdf

Florida Department of Transportation, *Maintenance Rating Program Handbook*
http://ombnet.dot.state.fl.us/procedures/bin/850065002.pdf

Florida Department of Transportation, Landscape Architecture Website
http://www.dot.state.fl.us/emo/beauty/beauty.shtm

Interlocking Concrete Pavement Institute (ICPI)
http://www.icpi.org/ http://www.fisstate.org

International Society of Arboriculture (ISA)
www.isa-arbor.com

Manual on Uniform Traffic Control Devices
http://www.mutcd.fhwa.dot.gov

Florida Irrigation Society
http://www.fisstate.org

Florida Department of Community Affairs (FCA), *Florida Board of Building Codes & Standards, Florida Accessibility Code for Building Construction*
http://www.dca.state.fl.us/fbc/publications/1_publications.htm

Guide to Roadside Mowing and Guide to Turf Management, available for purchase
http://infonet.dot.state.fl.us/SupportServicesOffice/plist.htm

Accessible Sidewalk Videos (ADA)
http://www.access-board.gov/news/sidewalk-videos.htm

SECTION NO.:	**86100000**
FM NO. (s):	**416878-1-52-01**
COUNTY:	**BROWARD**
S.R. NO(s).:	**7 (US 441)**

EXHIBIT D

APROXIMATE PROJECT COST

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

Date: 06/10/2009

APPROXIMATE PROJECT COST: $ 1,066,728,69

TOTAL FDOT BUDGET: $405,852.25

TOTAL BUDGET CONTRIBUTED BY CITY OF MARGATE: $660,876.44

SR 7/US 441 Resurfacing (416878-1) - Margate - Landscape Cost Estimate

LAST UPDATE: 6/10/2009

PAY ITEM NO.	SYM	DESCRIPTION	UNIT	GRAND TOTAL PLAN	INSTALLED UNIT COST W/ MAINT.	SUB-TOTAL
526-1-2		PAVERS - (INCLUDING CONCRETE 14,553 LF RETAINING CURB)	SY	3,390	$ 82.93	$ 281,130.00
570-1-2		PERFORMANCE SOD (ST. AUGUSTINE)	SY	6,979	$ 3.53	$ 24,635.87
580-1-1		SMALL PLANTS	LS	1		$ 190,530.92
	CI	Chrysobalanus icaco 'Red Tip' - Red Tip Cocoplum		1,855	$ 12.00	$ 22,261.85
	CID	Chrysobalanus icaco 'Horizontalis' - Dwarf Cocoplum		860	$ 14.18	$ 12,197.38
	CV	Codiaeum var. 'Norma' & 'Corkscrew' - Croton (Mix)		9	$ 13.80	$ 124.20
	DT	Dianella tasmanica - Blueberry Flax Lily		1,357	$ 16.80	$ 22,797.60
	FG	Ficus macrophylla 'Green Island' - Green Island Ficus		1,330	$ 14.49	$ 19,271.70
	JP	Juniperus parsonii - Parsons Juniper		778	$ 10.71	$ 8,332.38
	IV	Ilex vomitoria 'Stokes Dwarf' - Dwarf Yaupon Holly		1,547	$ 11.00	$ 17,017.00
	PD	Podocarpus macr. 'Pringles' or 'Meta' - Dwarf Podocarpus		769	$ 13.20	$ 10,150.80
	SAV	Schefflera arboricola 'Trinette' - Dwarf Variegated Schefflera		1,679	$ 11.00	$ 18,469.00
	SB	Spartina bakeri - Sand Cordgrass		2,120	$ 12.00	$ 25,440.00
	TD	Tripsacum dactyloides - Fakahatchee Grass		1,531	$ 11.00	$ 16,841.00
	TRF	Tripsacum floridana - Florida Gama Grass		1,469	$ 12.00	$ 17,628.00
580-1-2		LARGE PLANTS	LS	1		$ 150,099.40
	BN	Bismarckia nobilis - Bismarckia Palm		19	$ 2,200.00	$ 41,800.00
	BS	Bursera simaruba - Gumbo Limbo		18	$ 327.60	$ 5,896.80
	CES	Conocarpus erectus var. sericeus - Silver Buttonwood		9	$ 226.80	$ 2,041.20
	LD	Livistonia decipiens - Ribbon Palm		27	$ 700.00	$ 18,900.00
	PEA	Ptychosperma elegans - Solitaire Palm		45	$ 425.00	$ 19,125.00
	PHM	Phoenix dactylifera 'Medjool' - Medjool Date Palm		6	$ 7,000.00	$ 42,000.00
	QV	Quercus virginiana - Live Oak		33	$ 415.80	$ 13,721.40
	SP	Sabal palmetto - Sabal Palmetto		35	$ 189.00	$ 6,615.00
590-70		IRRIGATION SYSTEM	LS	1	$ 229,037.70	$ 229,037.70
		CONCRETE REMOVAL (SEPARATOR)	SY	5,800		$ 65,772.00
		TYPE D CURB REPLACEMENT	LF	6,214		$ 125,522.80

TOTAL LANDSCAPE, IRRIGATION AND HARDSCAPE COST	$ 1,066,728.69
TOTAL FDOT LANDSCAPE BUDGET (See Below)	$ 405,852.25
TOTAL BUDGET FROM RESURFACING PROJECT	$ 160,000.00
TOTAL BUDGET FROM SR 7 COLLABORATIVE PROJECT	$ 220,852.25
TOTAL BUDGET FROM FDOT GRANT PROJECT	$ 25,000.00
TOTAL BUDGET CONTRIBUTED BY CITY OF MARGATE	$ 660,876.44

SR 7 / US 441 Resurfacing - Margate - Irrigation Cost Estimate

Last Update: 6/10/2009

FPI# 416878-1-52-01 Cotleur & Hearing Project No. 07-0115		UNIT	TOTAL QTY	UNIT COST	SUB TOTAL
PAY ITEM NO.	*DESCRIPTION*				
590-70	**IRRIGATION SYSTEM**				
	RAINBIRD 1800 SERIES, 6" POP UPS	EA	793	$ 18.00	$ 14,274.00
	RAINBIRD 1800 SERIES, 12" POP UPS	EA	797	$ 25.00	$ 19,925.00
	RAINBIRD 1800 SERIES, PRS 12" POP UPS	EA	163	$ 22.00	$ 3,586.00
	RAINBIRD SHRUB ADAPTER ON PVC RISER	EA	29	$ 7.00	$ 203.00
	IRRITROL 100 SERIES, 1-1/2" ELECTRIC VALVE WITH ACTUATORS	EA	1	$ 285.00	$ 285.00
	IRRITROL 100 SERIES, 2" ELECTRIC VALVE WITH ACTUATORS	EA	71	$ 320.00	$ 22,720.00
	RAINBIRD PGA SERIES, 2" ELECTRIC VALVE	EA	2	$ 220.00	$ 440.00
	WILKIN 1" PRESSURE VACUUM BREAKER	EA	4	$ 500.00	$ 2,000.00
	LEIT 4000, 4 STATION SOLAR CONTROLLER WITH RAIN SENSOR	EA	5	$ 1,700.00	$ 8,500.00
	LEIT 4000, 6 STATION SOLAR CONTROLLER WITH RAIN SENSOR	EA	3	$ 2,000.00	$ 6,000.00
	LEIT XRC, 10 STATION SOLAR CONTROLLER WITH RAIN SENSOR	EA	3	$ 2,500.00	$ 7,500.00
	LEIT XRC, 16 STATION SOLAR CONTROLLER WITH RAIN SENSOR	EA	2	$ 3,000.00	$ 6,000.00
	SCH. 160 PVC LATERAL LINE	LF	21,890	$ 0.76	$ 16,636.40
	SCH. 40 MAINLINE	LF	9,071	$ 5.80	$ 52,611.80
	SCH. 40 PVC SLEEVE, SCH. 40 ELECTRIC CONDUIT & INSTALLATION	LF	1,238	$ 9.25	$ 11,451.50
	H.D.P.E. PIPE, DIRECTIONALLY BORED	LF	767	$ 55.00	$ 42,185.00
	LOW VOLTAGE WIRE	LF	13,000	$ 0.34	$ 4,420.00
	MISC. FITTINGS	LS	1	$ 2,000.00	$ 2,000.00
	TAP WATER MAIN, INSTALL SERVICE LINE & 1" METER (METER INSTALLED BY CITY, PAID FOR BY CONTRACTOR)	EA	3	$ 1,600.00	$ 4,800.00
	TAP WATER MAIN, INSTALL SERVICE LINE & 5/8" METER (METER INSTALLED BY CITY, PAID FOR BY CONTRACTOR)	EA	1	$ 1,500.00	$ 1,500.00
	PAVEMENT REMOVAL AND RESTORATION	LS	1	$ 2,000.00	$ 2,000.00
				TOTAL IRRIGATION SYSTEM COST	**$ 229,037.70**

*WATER METER IMPACT FEES AND WATER BILLS ARE TO BE PAID FOR BY THE CITY OF MARGATE AND ARE NOT INCLUDED IN THE COST OF THE IRRIGATION SYSTEM.

Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

3400 West Commercial Boulevard
Fort Lauderdale, FL 33309-3421

STEPHANIE C. KOPELOUSOS
SECRETARY

July 13, 2009

Mr. Dennis Holste
Assistant Director Margate CRA
City of Margate
5790 Margate Blvd.
Margate, Florida 33063

Dear Mr. Holste:

RE: District Four Amendment Number One Inclusive Maintenance Memorandum of Agreement for State Road 7 (US 441) from (M.P.16.698) to just north of N.W. 31st Street (M.P.20.60). FM# 416878-1-52-01.

Enclosed is one (1) original executed Amendment Number One to the Inclusive Maintenance Memorandum of Agreement executed July 16, 2008 for improvements to be installed along State Road 7 (US 441) in the City of Margate under Financial Project Number 416878-1-52-01.

If you have any questions or need further information, please contact me at (954) 777-4219.

Sincerely,

Elisabeth A. Hassett, R.L.A.
District Landscape Architect

Enclosures
CC: F.Porcella, City Manager, City of Margate
D.Pessoa, P.E., FDOT
File