SECTION NO: 86100
S.R. NO(S): 7 (US 441)
COUNTY: Broward
FM NO.(S): 421662-1-52-01

DISTRICT FOUR (4) AMENDMENT # ONE (1) TO STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION AND CITY OF COCONUT CREEK LANDSCAPE INCLUSIVE MEMORANDUM OF AGREEMENT

This is Amendment Number One to the Agreement dated May 27, 2009, made and entered into this 6th day of August 2009 by and between the State of Florida Department of Transportation hereinafter called the "**DEPARTMENT**" and the City of Coconut Creek, a political subdivision of the State of Florida, hereinafter called the "**AGENCY**".

WHEREAS, the parties entered into the Inclusive Maintenance of Agreement dated May 27, 2009 for the purpose of maintaining the landscape improvements 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 improvements to be installed on State Road 7 (US 441) in accordance with the above referenced Agreement;

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

1. Pursuant to paragraph 6 of the Inclusive Agreement for State Road 7 (US 441) dated May 27, 2009 the **DEPARTMENT** has decided to construct additional landscape improvements or to modify an improvement located as indicated in Exhibit A, on State Road 7 (US 441) from South of State Road 869 (Sawgrass Expressway) (M.P.22.57) to North of State Road 869 (Sawgrass Expressway) (M.P. 23.40) in accordance with the plans attached as Exhibit B.

2. 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.

3. The **DEPARTMENT** agrees to enter into a contract to have installed said landscape improvements for an amount as indicated in Exhibit D not to exceed **$88,019.50**.

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 & MAINTENANCE BOUNDARY 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 6th day August year written and approved.

City of Coconut Creek
a municipal corporation.

BY: _____
Chairperson/Mayor/Director of Parks & Recreation/City Manager/City Engineer/ Director of Public Works

_____ 11/30/09
Asst. City Attorney Date

NANCY A. COUSINS

State of Florida
Department of Transportation

BY: _____
Transportation Development

_____ 8/5/2009
District General Counsel Date

SECTION NO: 86100
S.R. NO(S): 7 (US 441)
COUNTY: Broward
FM NO.(S): 421662-1-52-01

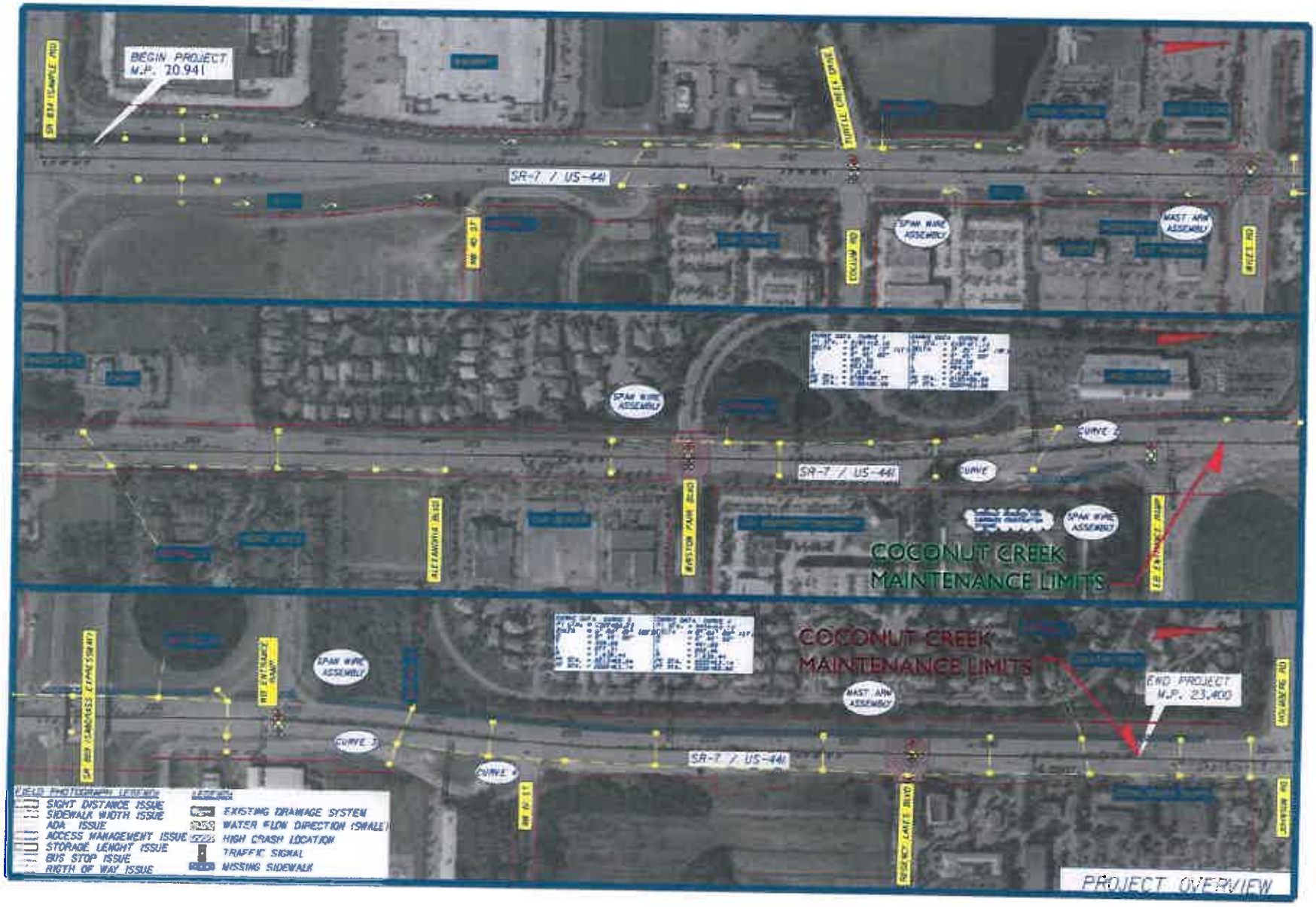
EXHIBIT A

I. PROJECT LOCATION:
State Road 7 (US 441) from State Road 834 (Sample Road) (M.P. 20.941) to North of State Road 869 (Sawgrass Expressway) (M.P.23.40)

II. MAINTENANCE LIMITS:
State Road 7 (US 441) from (M.P. 20.861) (Winston Park/Creekside Drive) to (M.P. 24.591) Broward/Palm Beach County Line)

III. PROJECT MAINTENANCE BOUNDARY MAP:
Please See Attached

COCONUT CREEK MAINTENANCE LIMITS MAP



SECTION NO: 86100
S.R. NO(S): 7 (US 441)
COUNTY: Broward
FM NO.(S): 421662-1-52-01

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: Land Design South
Robert Bentz RLS LA 997

Dated: 4-17-2009

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 421662-1-52-01
(FEDERAL FUNDS)
BROWARD COUNTY (86100)
STATE ROAD NO. 7 (US 441)

LANDSCAPE PLANS

INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2 THRU LD-5	LANDSCAPE TABULATION OF QUANTITIES
LD-6	LANDSCAPE GENERAL NOTES
LD-7 THRU LD-11	EXISTING CONDITIONS CHARTS
LD-12 THRU LD-31	EXISTING CONDITIONS PLANS
LD-32 THRU LD-45	LANDSCAPE PLANS
LD-46	IRRIGATION KEY SHEET
LD- 47 THRU LD-49	IRRIGATION TABULATION OF QUANTITIES AND IRRIGATION DETAILS
LD-50 THRU LD-63	IRRIGATION PLANS

PLANS PREPARED BY:
LAND DESIGN SOUTH
2101 CENTERPARK WEST DR, SUITE 100
WEST PALM BEACH FL 33409
(561) 478-6201
ROBERT BENTZ LA REG # 997
CERTIFICATE OF AUTHORIZATION NO: 000206

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

APR 17 2009

KEY SHEET REVISIONS	
DATE	DESCRIPTION

LANDSCAPE PLANS
LANDSCAPE ARCHITECT OF RECORD: _____

R.L.A. NO.: _____

FISCAL YEAR	SHEET NO.
	LD-1

FDOT PROJECT MANAGER: JOSE THEILER E.I.

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.001, F.A.C.

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TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET		GRAND TOTAL	
										LD-31		LD-32		LD-33		LD-34					
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-1	SMALL	ANN	SEASONAL ANNUALS	SEASONAL ANNUALS	10" X 10"	Natural Size	6" O.C.	SEE GENERAL NOTES	SF											15	
	SMALL	BSS	BOUGAINVILLEA SPECTABILIS 'SANDERIANA'	BOUGAINVILLEA	24"X24"	Natural Size	24" O.C.	SEE GENERAL NOTES	EA.											300	
	SMALL	DUR	DURANTA ERECTA 'GOLD MOUND'	GOLD MOUND DURANTA	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	SF											150	
	SMALL	FIG	FICUS MICROCARPA 'GREEN ISLAND FICUS'	GREEN ISLAND FICUS	24" X 24"	Natural Size	24" O.C.	SEE GENERAL NOTES	SF											45	
	SMALL	JAS	JASMINUM VOLUBILE	WAX JASMINE	12" X 12"	Natural Size	18" OC.	SEE GENERAL NOTES	EA.											300	
	SMALL	TRA	TRACHELOSPERMUM ASIATICUM	CONFEDERATE JASMINE	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	EA.											1000	
	SMALL	ZAM	ZAMIA MARITIMA	CARDBOARD PALM	24" X 24"	Natural Size	36" O.C.	SEE GENERAL NOTES	EA.											250	
580-1-2	LARGE	RO	ROYSTONEA ELATA	FLORIDA ROYAL PALM	10' G.W.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											8	
	LARGE	IC	ILEX CASSINE	DAHOON HOLLY	B&B,8' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											1	
	LARGE	QV	QUERCUS VIRGINIANA	LIVE OAK	B&B,8' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											4	
570-1-2			PERFORMANCE SOD	ST. AUGUSTINE				SEE GENERAL NOTES	SY	710		175		160		305		1350		5080	
526-1-1			CONCRETE PAVER					SEE PLAN SHEETS	SY											385	
570-1			COMPLETE IRRIGATION SYSTEM					SEE IRRIGATION SHEETS	LS											1	

APR 17 2009

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTERPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6501
ROBERT BENTZ LA REG # 667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

TABULATION OF QUANTITIES
PLANT SCHEDULE

SHEET NO. LD-2

TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET		GRAND TOTAL	
										LD-35		LD-36		LD-37		LD-38					
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-1	SMALL	ANN	SEASONAL ANNUALS	SEASONAL ANNUALS	10" X 10"	Natural Size	6" O.C.	SEE GENERAL NOTES	SF											15	
	SMALL	BSS	BOUGAINVILLEA SPECTABILIS 'SANDERIANA'	BOUGAINVILLEA	24"X24"	Natural Size	24" O.C.	SEE GENERAL NOTES	EA.											300	
	SMALL	DUR	DURANTA ERECTA 'GOLD MOUND'	GOLD MOUND DURANTA	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	SF											150	
	SMALL	FIG	FICUS MICROCARPA 'GREEN ISLAND FICUS'	GREEN ISLAND FICUS	24" X 24"	Natural Size	24" O.C.	SEE GENERAL NOTES	SF											45	
	SMALL	JAS	JASMINUM VOLUBILE	WAX JASMINE	12" X 12"	Natural Size	18" OC.	SEE GENERAL NOTES	EA.											300	
	SMALL	TRA	TRACHELOSPERMUM ASIATICUM	CONFEDERATE JASMINE	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	EA.											1000	
	SMALL	ZAM	ZAMIA MARITIMA	CARDBOARD PALM	24" X 24"	Natural Size	36" O.C.	SEE GENERAL NOTES	EA.											250	
580-1-2	LARGE	RO	ROYSTONEA ELATA	FLORIDA ROYAL PALM	10' G.W.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											8	
	LARGE	IC	ILEX CASSINE	DAHOON HOLLY	B&B,8' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											1	
	LARGE	QV	QUERCUS VIRGINIANA	LIVE OAK	B&B,8' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											4	
570-1-2			PERFORMANCE SOD	ST. AUGUSTINE				SEE GENERAL NOTES	SY	250		225				975		1450		5080	
525-1-1			CONCRETE PAVER					SEE PLAN SHEETS	SY											385	
570-1			COMPLETE IRRIGATION SYSTEM					SEE IRRIGATION SHEETS	LS											1	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-9591
ROBERT BENTZ LA REG #667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

TABULATION OF QUANTITIES
PLANT SCHEDULE

SHEET NO. LD-3

TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET		GRAND TOTAL	
										LD-39		LD-40		LD-41		LD-42					
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-1	SMALL	ANN	SEASONAL ANNUALS	SEASONAL ANNUALS	10" X 10"	Natural Size	6" O.C.	SEE GENERAL NOTES	SF											15	
	SMALL	BSS	BOUGAINVILLEA SPECTABILIS 'SANDERIANA'	BOUGAINVILLEA	24"X24"	Natural Size	24" O.C.	SEE GENERAL NOTES	EA.					225		75		300		300	
	SMALL	DUR	DURANTA ERECTA 'GOLD MOUND'	GOLD MOUND DURANTA	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	SF											150	
	SMALL	FIG	FICUS MICROCARPA 'GREEN ISLAND FICUS'	GREEN ISLAND FICUS	24" X 24"	Natural Size	24" O.C.	SEE GENERAL NOTES	SF											45	
	SMALL	JAS	JASMINUM VOLUBILE	WAX JASMINE	12" X 12"	Natural Size	18" OC.	SEE GENERAL NOTES	EA.					225		75		300		300	
	SMALL	TRA	TRACHELOSPERMUM ASIATICUM	CONFEDERATE JASMINE	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	EA.					850		150		1000		1000	
	SMALL	ZAM	ZAMIA MARITIMA	CARDBOARD PALM	24" X 24"	Natural Size	36" O.C.	SEE GENERAL NOTES	EA.					250				250		250	
580-1-2	LARGE	RO	ROYSTONEA ELATA	FLORIDA ROYAL PALM	10' G.W.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.					6		2		8		8	
	LARGE	IC	ILEX CASSINE	DAHOON HOLLY	B&B,5' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											1	
	LARGE	QV	QUERCUS VIRGINIANA	LIVE OAK	B&B,8' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											4	
570-1-2			PERFORMANCE SOD	ST. AUGUSTINE				SEE GENERAL NOTES	SY	1220		615		145				1835		5080	
526-1-1			CONCRETE PAVER					SEE PLAN SHEETS	SY					385						385	
570-1			COMPLETE IRRIGATION SYSTEM					SEE IRRIGATION SHEETS	LS											1	

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APR 17 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000206
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 997

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

TABULATION OF QUANTITIES
PLANT SCHEDULE

SHEET NO. LD-4

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TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET		GRAND TOTAL	
										LD-43		LD-44									
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-1	SMALL	ANN	SEASONAL ANNUALS	SEASONAL ANNUALS	10" X 10"	Natural Size	6" O.C.	SEE GENERAL NOTES	SF	15								15		15	
	SMALL	BSS	BOUGAINVILLEA SPECTABILIS 'SANDERIANA'	BOUGAINVILLEA	24"X24"	Natural Size	24" O.C.	SEE GENERAL NOTES	EA.											300	
	SMALL	DUR	DURANTA ERECTA 'GOLD MOUND'	GOLD MOUND DURANTA	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	SF	150								150		150	
	SMALL	FIG	FICUS MICROCARPA 'GREEN ISLAND FICUS'	GREEN ISLAND FICUS	24" X 24"	Natural Size	24" O.C.	SEE GENERAL NOTES	SF	45								45		45	
	SMALL	JAS	JASMINUM VOLUBILE	WAX JASMINE	12" X 12"	Natural Size	18" OC.	SEE GENERAL NOTES	EA.											300	
	SMALL	TRA	TRACHELOSPERMUM ASIATICUM	CONFEDERATE JASMINE	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	EA.											1000	
	SMALL	ZAM	ZAMIA MARITIMA	CARDBOARD PALM	24" X 24"	Natural Size	36" O.C.	SEE GENERAL NOTES	EA.											250	
580-1-2	LARGE	RO	ROYSTONEA ELATA	FLORIDA ROYAL PALM	10' G.W.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											8	
	LARGE	IC	ILEX CASSINE	DAHOON HOLLY	B&B,8' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.	1								1		1	
	LARGE	QV	QUERCUS VIRGINIANA	LIVE OAK	B&B,8' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.	4								4		4	
570-1-2			PERFORMANCE SOD	ST. AUGUSTINE				SEE GENERAL NOTES	SY											5080	
526-1-1			CONCRETE PAVER					SEE PLAN SHEETS	SY											385	
570-1			COMPLETE IRRIGATION SYSTEM					SEE IRRIGATION SHEETS	LS											1	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6G0-11.01, F.A.C.

APR 17 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6521
ROBERT MENTZ LA REG #667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

TABULATION OF QUANTITIES
PLANT SCHEDULE

SHEET NO. LD-5

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GENERAL NOTES

1. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES AND FIELD CHECK ALL DIMENSIONS PRIOR TO ANY LANDSCAPE OR IRRIGATION INSTALLATION. REPORT ANY CONFLICTS AND DISCREPANCIES TO ENGINEER.

2. UNWOVEN GEO-TEXTILE FABRIC WILL BE INSTALLED IN ALL SHRUB BEDS PRIOR TO SHRUB INSTALLATION TO PREVENT WEED GROWTH. EXCAVATION FOR SHRUB INSTALLATION SHALL LEAVE NO SOIL ON THE FABRIC. USE ANCHOR PINS IF NECESSARY TO STABILIZE THE FABRIC. OVERLAPPING SHALL BE NO LESS THAN TWO (2) FEET BETWEEN FABRIC FLAPS.

3. TREES AND PALMS HAVE UNIQUE SYMBOLS IN THE LANDSCAPE PLANS AND ARE THEREFORE QUANTIFIED PER EACH PLANS SHEET. GROUNDCOVERS SHOWN BY HATCHED AREAS AND SHRUBS ARE QUANTIFIED FOR EACH MASS.

4. FERTILIZATION SCHEDULE - FOR TREES AND PALMS, APPLY AN 8-4-12+4 Mg FERTILIZER INCLUDING ALL MICRONUTRIENTS. 100% OF THE (N) NITROGEN, (K) POTASSIUM, AND (Mg) MAGNESIUM SHALL BE IN SLOW RELEASE FORM.APPLY AT A RATE OF 1.5 POUNDS OF ACTUAL FERTILIZER (NOT N) PER 100 SQUARE FEET, EVERY 3 MONTHS. COORDINATE FERTILIZING WITH WATERING SO THAT FERTILIZER IS THOROUGHLY WATERED IN IMMEDIATELY FOLLOWING ITS APPLICATION.PRIOR TO THE PRE-CONSTRUCTION MEETING. SUBMIT MANUFACTURERS CERTIFIED FERTILIZER ANALYSIS ALONG WITH THE FERTILIZATION SCHEDULE TO THE ENGINEER.

5. FERTILIZE ALL SHRUBS WITH A COMPLETE, SLOW-RELEASE BRAND FERTILIZER WITH AN APPROX. RATIO OF 4-2-1. FOLLOW MANUFACTURER'S SPECIFICATIONS FOT APPLICATION. FERTILIZE PALMS WITH SPECIAL PALM FERTILIZER CONTAINING MANGANESE AND MAGNESIUM PER MANUFACTURER'S DIRECTIONS. ALL FERTILIZER SHALL COMPLY WITH SECTION 982.

6. CONTRACTOR SHALL VERIFY SOIL DRAINAGE CONDITIONS OF ALL PLANTING HOLES PRIOR TO PLANTING IN COMPLIANCE WITH FDOT SPECIFICATION SECTION 580-3.3. COST FOR ALL BED PREPARATION, UNSUITABLE SOIL REMOVAL AND ADDITIONAL FINISH SOIL WILL BE INCLUDED IN THE COST WITH SECTION 982.

7. THE TOP TWO FEET OF SOIL IN ALL LANDSCAPE AREAS SHALL CONSIST OF A UNIFORM MIX OF 75% EXISTING SITE SOIL (COMPLIANT WITH INDEX 544 GENERAL NOTE 4) AND 25% ADDED FINISH SOIL, WHICH SHALL BE FRIABLE LOAM TYPICAL OF LOCALLY CULTIVATED TOPSOIL, CONTAINING AT LEAST 5% DECAYED ORGANIC MATTER, A pH LEVEL BETWEEN 6.0 AND 7.0 AND TAKEN FROM WELL-DRAINED ARABLE SITES. SOIL WILL BE IN COMPLIANCE WITH SECTION 987 OF FDOT STANDARD SPECIFICATIONS, AND THE MORE STRINGENT REQUIREMENTS LISTED ABOVE. TOPSOIL FROM AREAS INFESTED WITH NUTGRASS OR TROPICAL SODA APPLE WILL NOT BE ACCEPTED. CONTRACTOR WILL PROVIDE VERIFICATION THAT ADDED SOIL COMPLIES WITH REQUIREMENTS BY SUBMITTAL OF SOIL TEST REPORT AND SOIL SAMPLES.

8. TREAT ALL PLANTING BEDS WITH PRE-EMERGENT AND POST-EMERGENT HERBICIDES ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. SUBMIT RECEIPTS FOR MATERIALS USED. ALL HERBICIDES TO BE APPLIED BY A FLORIDA LICENSED HERBICIDE APPLICATOR, WITH PROPER CERTIFICATION. CONTRACTOR TO PROVIDE COPIES OF LICENSE DOCUMENTATION.

9. MULCH, IN COMPLIANCE WITH FDOT STANDARD INDEX 544 GENERAL NOTES, WITH CLEAN, INSECT FREE FLORIMULCH OR APPROVED EQUAL. WATER IN WELL TO SECURE IN PLACE.

10. LAY SOD SOLIDLY IN ALL DISTURBED OR INDICATED AREAS WITH CLOSELY ABUTTING JOINTS, ROLL AND FERTILIZE WITH A POLYMER/SULFUR COATED TURF FERTILIZER WITH APPROX. RATIO OF 4-2-1 AND AT LEAST 30% SLOW RELEASE NITROGEN. APPLY AT THE MANUFACTURER'S SPECIFIED RATE. SUBMIT LABEL FOR APPROVAL AND RECEIPTS FOR MATERIAL USED. PIN ALL SODDED SLOPES GREATER THAN 3:1 WITH STEEL U-PINS / SOD STAPLES. PAY ITEM 570-1-2 INCLUDES THE COST FOR FERTILIZER, WATER, AND MOWING NEEDED TO ESTABLISH AND MAINTAIN THE SODDED AREAS.

11. NOTIFY THE ADMINISTRATOR AND LANDSCAPE ARCHITECT OF ANY UNFORESEEN CONDITIONS I.E., COMPACTED SOIL/SUBGRADE, POOR DRAINAGE, UTILITY CONFLICTS, ETC., PRIOR TO PROCEEDING WITH LANDSCAPE OR IRRIGATION INSTALLATION.

12. EXISTING LANDSCAPE MATERIAL THAT IS CALLED OUT ON THE LANDSCAPE PLANS TO REMAIN SHALL BE GIVEN TREATMENT TO PROMOTE A CONTINUOUSLY HEALTHY ENVIRONMENT. ANY DAMAGE UPON THE EXISTING LANDSCAPE SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT ON RECORD, AND SHALL BE SUBJECT TO REPLACED. MAINTENANCE OF THE EXISTING MATERIAL SHALL FOLLOW FDOT INDEX NO. 546.

13. ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE DISTRICT LANDSCAPE MANAGER.

14. DO NOT MAKE SUBSTITUTIONS OR REVISIONS. ANY REVISIONS OR MODIFICATIONS TO THE LANDSCAPE PLAN MUST HAVE PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT, DISTRICT LANDSCAPE MANAGER AND PERMITTING AUTHORITY. REVISIONS MUST BE DOCUMENTED AS REQUIRED BY APPLICABLE STATE, CITY OR COUNTY REGULATIONS.

15. CONTRACTOR SHALL USE FDOT STANDARD INDEX 544 FOR PLANT INSTALLATION. SEE PLANTING DETAILS AS THEY APPLY TO TREES, MULTI-TRUNK TREES, AND PALMS AND SHRUBS.

16. MAINTENANCE OF TRAFFIC-CONTRACTOR SHALL REFER TO THE TRAFFIC CONTROL PLANS OF THE ROADWAY PLANS.

17. MAINTAINING AGENCY RESPONSIBLE FOR ROUTINE CLEAN-UP OF FOXTAIL PALM FRONDS TO AVOID SAFETY HAZARD OF FRONDS FALLING INTO TRAFFIC.

18. 580-1-1 SHRUBS LOCATED IN SAFE SIGHT AREAS AS LOCATED ON LANDSCAPE PLANS SHALL BE MAINTAINED AT A MAXIMUM HEIGHT OF 18". OTHERWISE, FOLLOW GUIDELINES SET FORTH IN TABULATION OF QUANTITIES.

19. DESIGN SPEED OF ROADWAY: 45 MPH

20. MAINTAINING AGENCY CONTACT INFORMATION:

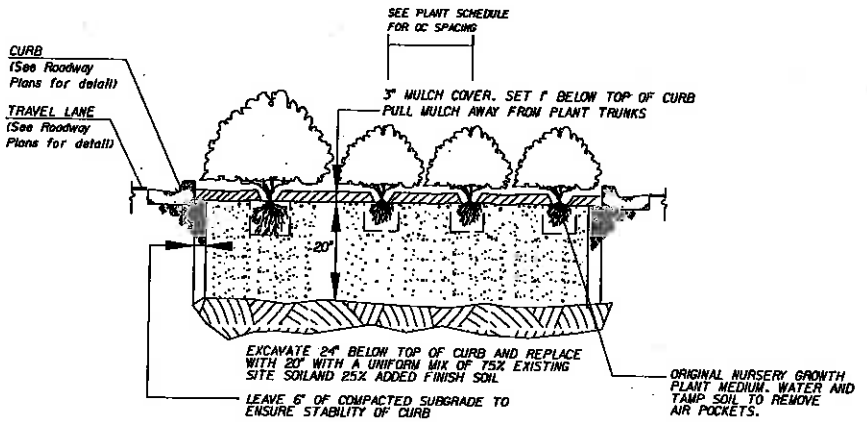
CITY OF CORAL SPRINGS:
Louis J. Goldstein,
(954) 345-2112

CITY OF COCONUT CREEK:
Pam Stanton
(954) 956-1463

PAY ITEM NOTES:

110-1-1 CLEARING AND GRUBBING
THIS PAY ITEM SHALL ALSO INCLUDE THE COST OF THE APPLICATION OF BOTH POST AND PRE EMERGENT HERBICIDE IN ALL AREAS SCHEDULED TO RECEIVE PLANTS/MULCH/SOD AS WELL AS ANY OTHER AREAS LABELED TO APPLY HERBICIDE. REMOVING ALL INVASIVE VINES, INCLUDING BUT NOT LIMITED TO VIRGINIA CREEPER AND ALL VEGETATION LABELED TO REMOVE. PREVENTING THE DISCHARGE OF ANY FOREIGN MATERIAL INTO ANY WATER BODIES IN THE PROJECT.

580-1, 580-2 SMALL/LARGE PLANTS
THESE PAY ITEMS SHALL ALSO INCLUDE THE COST OF EXCAVATION, BACKFILL, DISPOSAL OF EXCESS MATERIAL, TOPSOIL PREPERATION, ESTABLISHMENT, STAKING AND GUYING, SITE CLEAN UP, MAINTENANCE AND ANY OTHER NECESSARY MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION PER PLANS. ANY OTHER REQUIREMENTS NECESSARY FOR FINAL ACCEPTANCE SHALL BE CONSIDERED INCIDENTAL TO THE WORK BEING PERFORMED. THE COST OF GEO-TEXTILE WEED FABRIC, MULCH AND FERTILZER, WATER AND ITS APPLICATION WILL BE INCLUDED IN THE PAY ITEMS FOR SMALL AND LARGE PLANTS.



N.T.S.

MEDIAN PLANTING EXCAVATION DETAIL

APR 17 2009

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000205
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BERTZ LA REG # 987

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

GENERAL NOTES

SHEET NO. LD-6

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Tree #	Botanical Name	Common Name	Native?	DBH(in)/CT(ft)	Action	Notes	Location
1	Delonix regia	Poinciana	N	2.5"	Preserve		In Median
2	Delonix regia	Poinciana	N	2.5"	Preserve		In Median
3	Delonix regia	Poinciana	N	2.5"	Preserve		In Median
4	Delonix regia	Poinciana	N	2.5"	Preserve		In Median
5	Delonix regia	Poinciana	N	2.5"	Preserve		In Median
6	Delonix regia	Poinciana	N	2.5"	Preserve		In Median
7	Delonix regia	Poinciana	N	2.5"	Preserve		In Median
8	Roystonea elata	Royal Palm	Y	12'	Preserve		In Median
9	Roystonea elata	Royal Palm	Y	12'	Preserve		In Median
10	Roystonea elata	Royal Palm	Y	12'	Preserve		In Median
11	Roystonea elata	Royal Palm	Y	11'	Preserve		In Median
12	Roystonea elata	Royal Palm	Y	10'	Preserve		In Median
13	Roystonea elata	Royal Palm	Y	10'	Preserve		In Median
14	Roystonea elata	Royal Palm	Y	10'	Preserve		In Median
15	Roystonea elata	Royal Palm	Y	12'	Preserve		In Median
16	Roystonea elata	Royal Palm	Y	10'	Preserve		In Median
17	Roystonea elata	Royal Palm	Y	10'	Preserve		In Median
18	Roystonea elata	Royal Palm	Y	12'	Preserve		In Median
19	Cordia sebestena	Geiger	Y	1.5"	Preserve		In Median
20	Cordia sebestena	Geiger	Y	1.5"	Preserve		In Median
21	Cordia sebestena	Geiger	Y	1.5"	Preserve		In Median
22	Cordia sebestena	Geiger	Y	1.5"	Preserve		In Median
23	Cordia sebestena	Geiger	Y	1.5"	Preserve		In Median
24	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
25	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
26	Quercus virginiana	Live Oak	Y	7"	Preserve		In Median
27	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
28	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
29	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
30	Quercus virginiana	Live Oak	Y	8"	Preserve	Double Leader	In Median
31	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
32	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
33	Quercus virginiana	Live Oak	Y	7"	Preserve		In Median
34	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
35	Quercus virginiana	Live Oak	Y	9"	Preserve		In Median
36	Sabal palmetto	Sabal Palm	Y	10'	Preserve		In Median
37	Sabal palmetto	Sabal Palm	Y	10'	Preserve		In Median
38	Sabal palmetto	Sabal Palm	Y	11'	Preserve		In Median
39	Sabal palmetto	Sabal Palm	Y	9'	Preserve		In Median
40	Sabal palmetto	Sabal Palm	Y	10'	Preserve		In Median
41	Sabal palmetto	Sabal Palm	Y	10'	Preserve		In Median
42	Sabal palmetto	Sabal Palm	Y	10'	Preserve		In Median
43	Sabal palmetto	Sabal Palm	Y	11'	Preserve		In Median
44	Sabal palmetto	Sabal Palm	Y	9'	Preserve		In Median
45	Quercus virginiana	Live Oak	Y	7"	Preserve		In Median
46	Quercus virginiana	Live Oak	Y	8"	Preserve	Scar	In Median
47	Quercus virginiana	Live Oak	Y	10"	Preserve	Scar	In Median
48	Quercus virginiana	Live Oak	Y	7"	Preserve		In Median
49	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
50	Quercus virginiana	Live Oak	Y	11"	Preserve		In Median

APR 17 200

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409
(561) 478-6551
ROBERT WENTZ LA REG # 667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS CHART

SHEET NO. LD-7

51	Quercus virginiana	Live Oak	Y	7"	Preserve		In Median
52	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
53	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
54	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
55	Quercus virginiana	Live Oak	Y	7"	Preserve	Scar	In Median
56	Tabebuia heterophylla	Pink Tabebuia	N	4"	Preserve		Roadway Verge
57	Tabebuia heterophylla	Pink Tabebuia	N	4"	Preserve		Roadway Verge
58	Tabebuia heterophylla	Pink Tabebuia	N	7"	Preserve		Roadway Verge
59	Tabebuia heterophylla	Pink Tabebuia	N	4"	Preserve		Roadway Verge
60	Tabebuia heterophylla	Pink Tabebuia	N	8"	Preserve		Roadway Verge
61	Tabebuia heterophylla	Pink Tabebuia	N	4"	Preserve		Roadway Verge
62	Tabebuia heterophylla	Pink Tabebuia	N	7"	Preserve		Roadway Verge
63	Tabebuia heterophylla	Pink Tabebuia	N	5"	Preserve		Roadway Verge
64	Tabebuia heterophylla	Pink Tabebuia	N	7"	Preserve		Roadway Verge
65	Tabebuia heterophylla	Pink Tabebuia	N	5"	Preserve		Roadway Verge
66	Tabebuia heterophylla	Pink Tabebuia	N	2.5"	Preserve		Roadway Verge
67	Tabebuia heterophylla	Pink Tabebuia	N	5"	Remove	Severly Damaged Tree	Roadway Verge
68	Tabebuia heterophylla	Pink Tabebuia	N	4"	Remove	Scar	Roadway Verge
69	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
70	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
71	Quercus virginiana	Live Oak	Y	7"	Preserve		In Median
72	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
73	Sabal palmetto	Sabal Palm	Y	13'	Preserve		In Median
74	Sabal palmetto	Sabal Palm	Y	10	Preserve		In Median
75	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
76	Sabal palmetto	Sabal Palm	Y	14'	Preserve		In Median
77	Sabal palmetto	Sabal Palm	Y	10'	Preserve		In Median
78	Quercus virginiana	Live Oak	Y	8"	Preserve	Scar	In Median
79	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
80	Quercus virginiana	Live Oak	Y	7"	Remove/Relocate		In Median
81	Quercus virginiana	Live Oak	Y	5"	Remove/Relocate		In Median
82	Quercus virginiana	Live Oak	Y	6"	Remove/Relocate		In Median
83	Sabal palmetto	Sabal Palm	Y	11'	Remove/Relocate		In Median
84	Sabal palmetto	Sabal Palm	Y	11'	Remove/Relocate		In Median
85	Sabal palmetto	Sabal Palm	Y	14'	Remove/Relocate		In Median
86	Sabal palmetto	Sabal Palm	Y	12'	Remove/Relocate		In Median
87	Sabal palmetto	Sabal Palm	Y	11'	Remove/Relocate		In Median
88	Sabal palmetto	Sabal Palm	Y	14'	Remove/Relocate		In Median
89	Tabebuia heterophylla	Pink Tabebuia	N	8"	Preserve		Roadway Verge
90	Quercus virginiana	Live Oak	Y	6"	Relocate / Remove	TAPER	In Median
91	Quercus virginiana	Live Oak	Y	6"	Relocate / Remove	TAPER	In Median
92	Tabebuia heterophylla	Pink Tabebuia	N	4"	Preserve		Roadway Verge
93	Tabebuia heterophylla	Pink Tabebuia	N	4"	Preserve		Roadway Verge
94	Tabebuia heterophylla	Pink Tabebuia	N	5"	Preserve	Severly Damaged Tree	Roadway Verge
95	Tabebuia heterophylla	Pink Tabebuia	N	5"	Preserve		Roadway Verge
96	Tabebuia heterophylla	Pink Tabebuia	N	5"	Preserve		Roadway Verge
97	Quercus virginiana	Live Oak	Y	5"	Relocate / Remove	TAPER	In Median
98	Quercus virginiana	Live Oak	Y	7"	Relocate / Remove	TAPER	In Median
99	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove	TAPER	In Median
100	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove		In Median

APR 17 2009

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6501
ROBERT GENTZ LARED # 667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS CHART

SHEET NO. LD-8

101	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove		In Median
102	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove		In Median
103	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove		In Median
104	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove		In Median
105	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove		In Median
106	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove		In Median
107	Quercus virginiana	Live Oak	Y	7"	Relocate / Remove		In Median
108	Quercus virginiana	Live Oak	Y	7"	Relocate / Remove		In Median
109	Tabebula heterophylla	Pink Tabebula	N	8"	Preserve	Narrow Median	In Median
110	Tabebuia heterophylla	Pink Tabebuia	N	8"	Preserve		Roadway Verge
111	Tabebuia heterophylla	Pink Tabebuia	N	7"	Preserve		Roadway Verge
112	Tabebula heterophylla	Pink Tabebuia	N	7"	Preserve	Severly Damaged Tree	Roadway Verge
113	Tabebula heterophylla	Pink Tabebuia	N	6"	Preserve		Roadway Verge
114	Quercus virginiana	Live Oak	Y	6"	Preserve		Roadway Verge
115	Quercus virginiana	Live Oak	Y	9"	Relocate / Remove	Poor Canopy Structure	In Median
116	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
117	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
118	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
119	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
120	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
121	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
122	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
123	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
124	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
125	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
126	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
127	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
128	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
129	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
130	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
131	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
132	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
133	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
134	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
135	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
136	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
137	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
138	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
139	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
140	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
141	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
142	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
143	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
144	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
145	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
146	Quercus virginiana	Live Oak	Y	4"	Preserve		In Median
147	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
148	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
149	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
150	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median

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Hrk 17 2009

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6501
ROBERT BENTZ LA REG # 777
CERTIFICATE OF AUTHORIZATION NO: 000205

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS CHART

SHEET NO. LD-9

151	Quercus virginiana	Live Oak	Y	1"	Preserve	Gone	In Median
152	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
153	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
154	Quercus virginiana	Live Oak	Y	4"	Preserve		In Median
155	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
156	Quercus virginiana	Live Oak	Y	4"	Preserve		In Median
157	Sabal palmetto	Sabal Palm	Y	11'	Preserve		In Median
158	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
159	Sabal palmetto	Sabal Palm	Y	14'	Preserve		In Median
160	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
161	Sabal palmetto	Sabal Palm	Y	8'	Preserve		In Median
162	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
163	Sabal palmetto	Sabal Palm	Y	11'	Preserve		In Median
164	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
165	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
166	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
167	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
168	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
169	Sabal palmetto	Sabal Palm	Y	8'	Preserve		In Median
170	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
171	Quercus virginiana	Live Oak	Y	4"	Preserve	One Sided Canopy	In Median
172	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
173	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
174	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
175	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
176	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
177	Quercus virginiana	Live Oak	Y	4"	Preserve		In Median
178	Sabal palmetto	Sabal Palm	Y	10	Preserve		In Median
179	Sabal palmetto	Sabal Palm	Y	20'	Preserve		In Median
180	Sabal palmetto	Sabal Palm	Y	18'	Preserve		In Median
181	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
182	Sabal palmetto	Sabal Palm	Y	10'	Preserve		In Median
183	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
184	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
185	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
186	Quercus virginiana	Live Oak	Y	4"	Preserve		In Median
187	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
188	Quercus virginiana	Live Oak	Y	4"	Preserve		In Median
189	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
190	Sabal palmetto	Sabal Palm	Y	16'	Preserve		In Median
191	Sabal palmetto	Sabal Palm	Y	11'	Preserve		In Median
192	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
193	Sabal palmetto	Sabal Palm	Y	9'	Preserve		In Median
194	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
195	Sabal palmetto	Sabal Palm	Y	7'	Preserve		In Median
196	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
197	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
198	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
199	Sabal palmetto	Sabal Palm	Y	8'	Preserve		In Median
200	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median

APR 17 2009

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000206
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6651
ROBERT BENTZ LA REG # 667

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS CHART

SHEET NO. LD-10

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201	Quercus virginiana	Live Oak	Y	2.5"	Preserve		In Median
202	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
203	Quercus virginiana	Live Oak	Y	4"	Preserve		In Median
204	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
205	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
206	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
207	Quercus virginiana	Live Oak	Y	7"	Preserve		In Median
208	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
209	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
210	Quercus virginiana	Live Oak	Y	10"	Preserve		In Median
211	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
212	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
213	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
214	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
215	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
216	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
217	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
218	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
219	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
220	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
221	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
222	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
223	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
224	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
225	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
226	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
227	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
228	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
229	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
230	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
231	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
232	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
233	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
234	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
235	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
236	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
237	Quercus virginiana	Live Oak	Y	9"	Preserve	Hat Rack	In Median
238	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
239	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
240	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
241	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
242	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
243	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
244	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
245	Quercus virginiana	Live Oak	Y	9"	Preserve		In Median
246	Quercus virginiana	Live Oak	Y	8"	Preserve	Scar	In Median
247	Quercus virginiana	Live Oak	Y	10"	Preserve		In Median
248	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
249	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
250	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
251	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
252	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
253	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
254	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
255	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
256	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
257	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
258	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
259	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
260	Ilex x attenuata 'East Palatka'	East Palatka Holly	Y	2"	Preserve		In Median
261	Quercus hemisphaerica	Laurel Oak	Y	4"	Preserve		In Median
262	Quercus hemisphaerica	Laurel Oak	Y	3"	Preserve		In Median
263	Conocarpus erectus var. sericeus	Silver Buttonwood	Y		Relocate / Remove		In Median
264	Conocarpus erectus var. sericeus	Silver Buttonwood	Y		Relocate / Remove	Codominant Leaders	In Median
265	Conocarpus erectus var. sericeus	Silver Buttonwood	Y		Relocate / Remove	Codominant Leaders	In Median
266	Coccoloba diversifolia	Pigeon Plum	Y	5"	Preserve	Codominant Leaders	In Median
					Preserve		In Median

APR 17 200

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 105 WEST PALM BEACH FL 33409 (561) 478-6594
ROBERT BENTZ LA REG # 697
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS CHART

SHEET NO. LD-11

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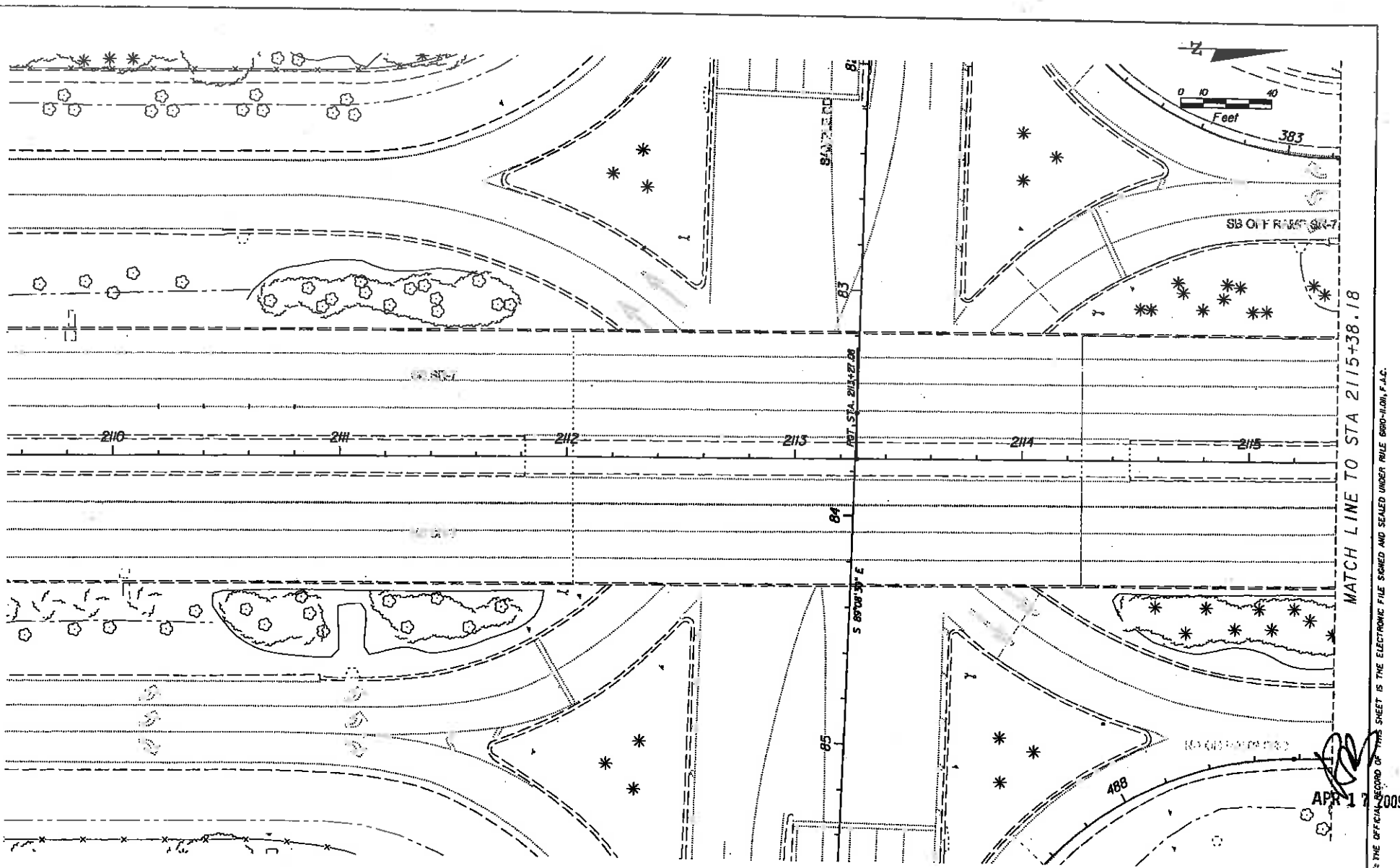

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8591
ROBERT BENTZ LA REG # 717
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-12

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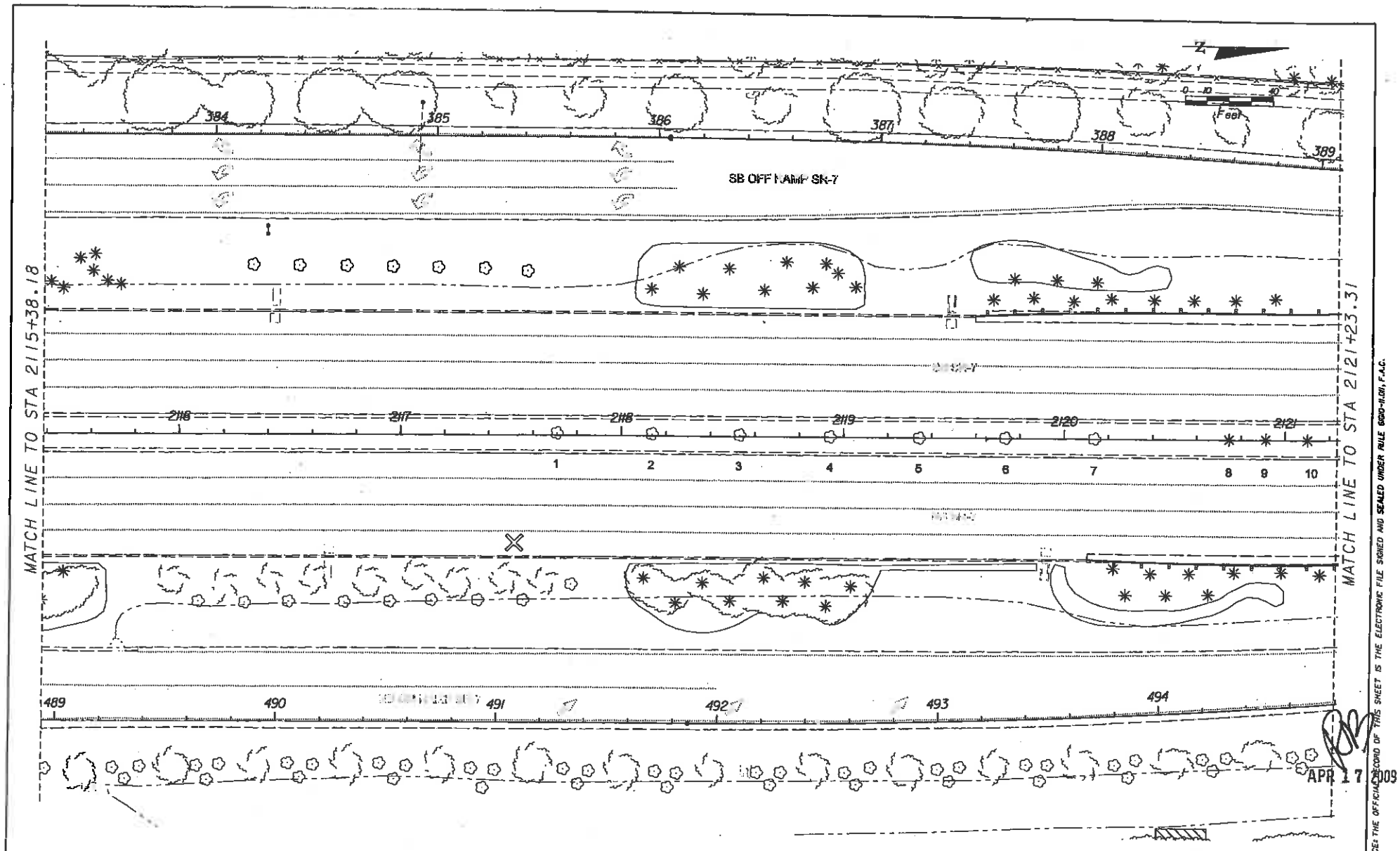

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APR 17 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6901
ROBERT LENTZ LARES # 577
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-13

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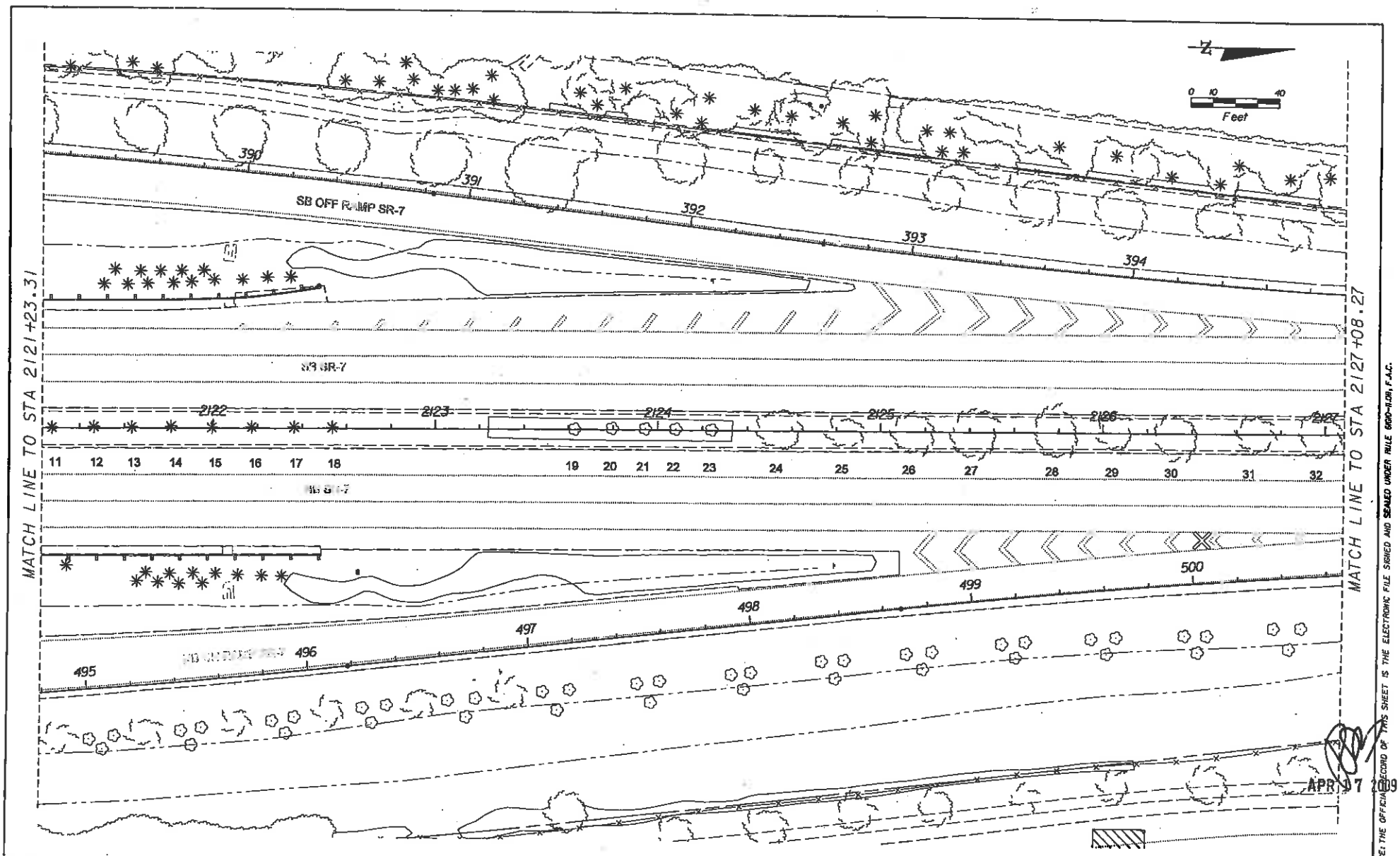

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 101 WEST PALM BEACH FL 33409 (561) 478-6591
ROBERT BENTZ LA NUMB # 0001
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-14

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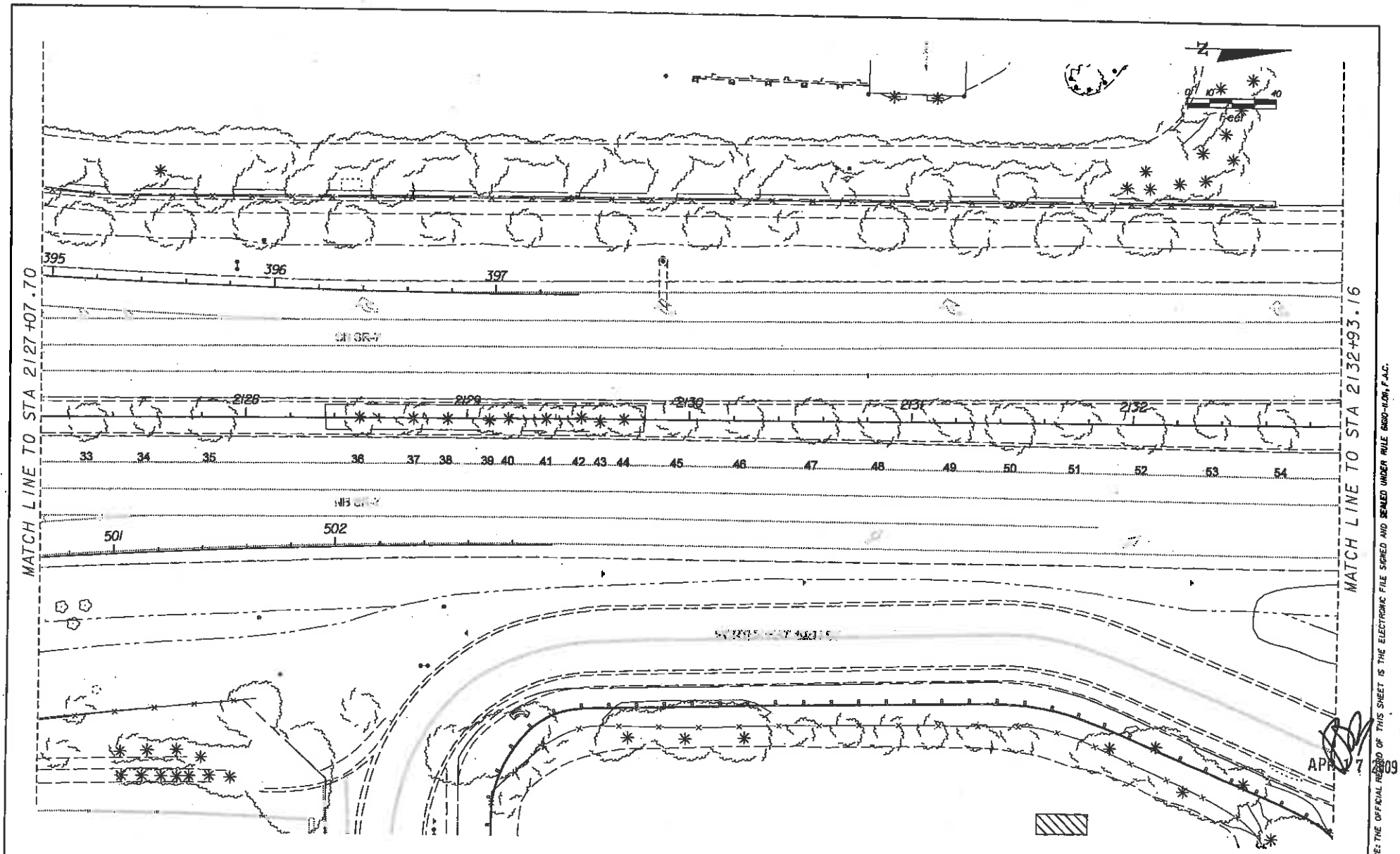

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APR 17 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 160 WEST PALM BEACH FL. 33409 (561) 478-6991
ROBERT BENTZ LA#6668 #17
CERTIFICATE OF AUTHORIZATION NO: 000205

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-15

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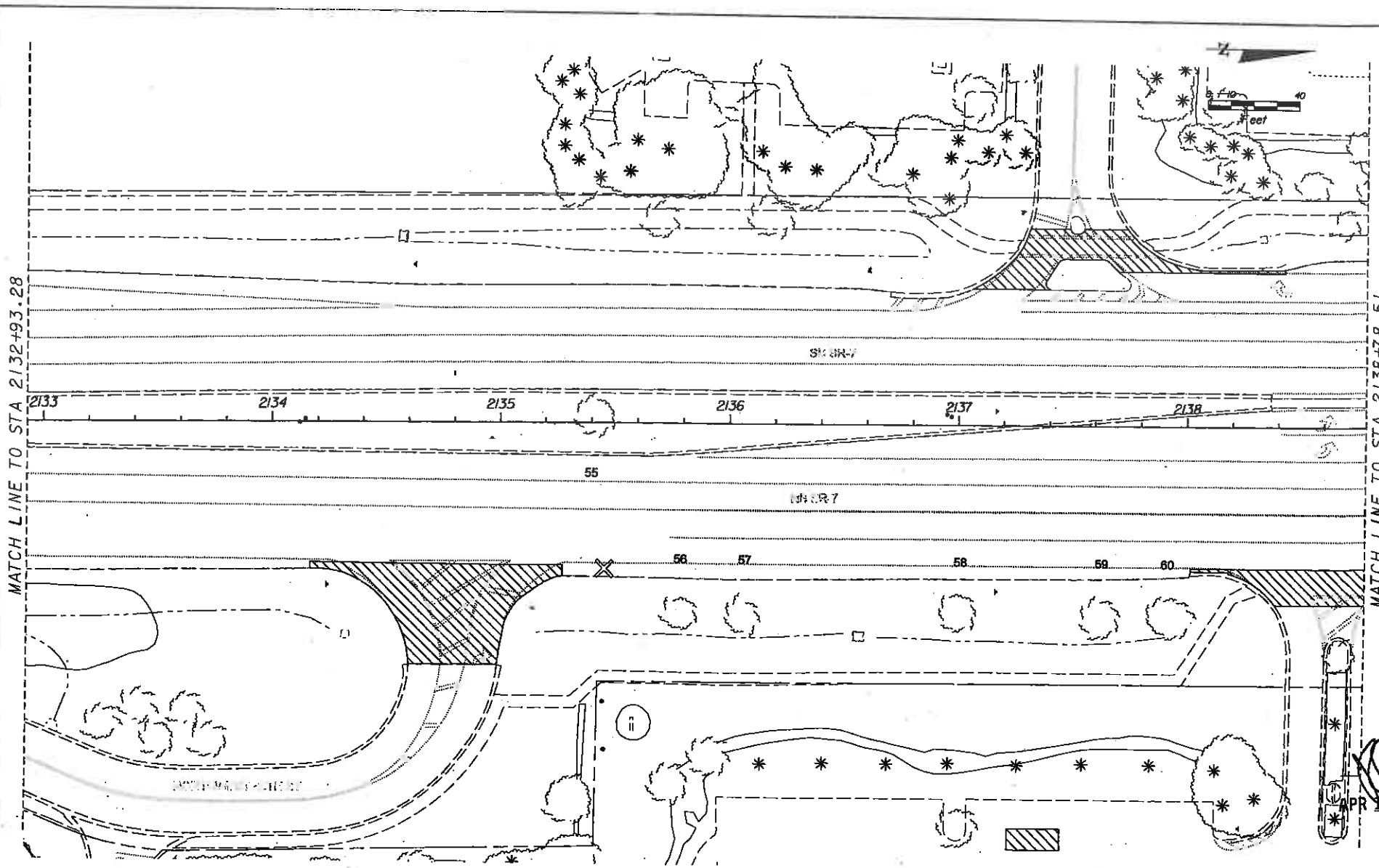

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-8601
ROBERT BENTZ LA REG # 667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-16

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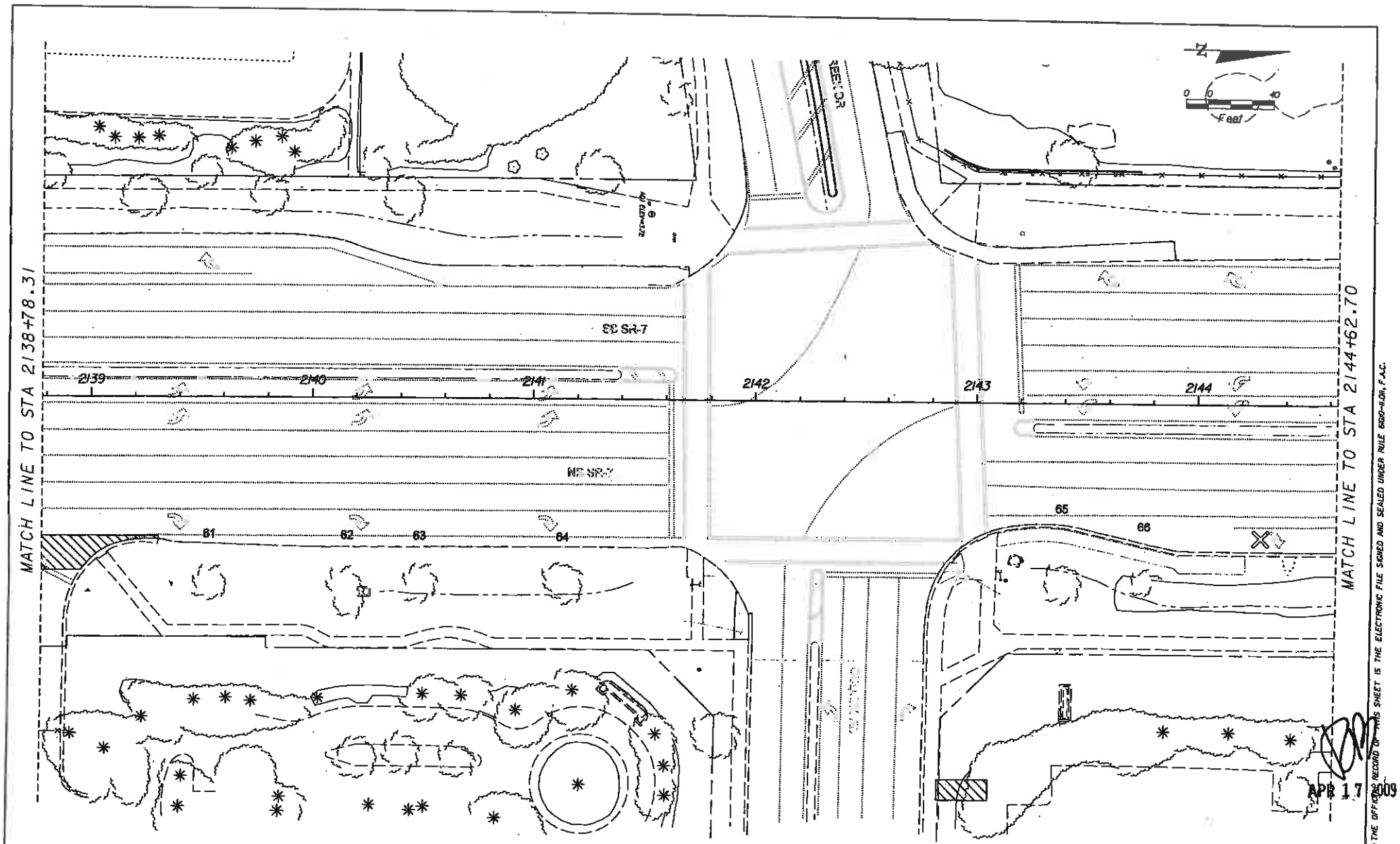

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 150, WEST PALM BEACH FL 33409 (561) 478-6601
ROBERT BENTZ LA #669 #667
CERTIFICATE OF AUTHORIZATION NO: 000605

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-17

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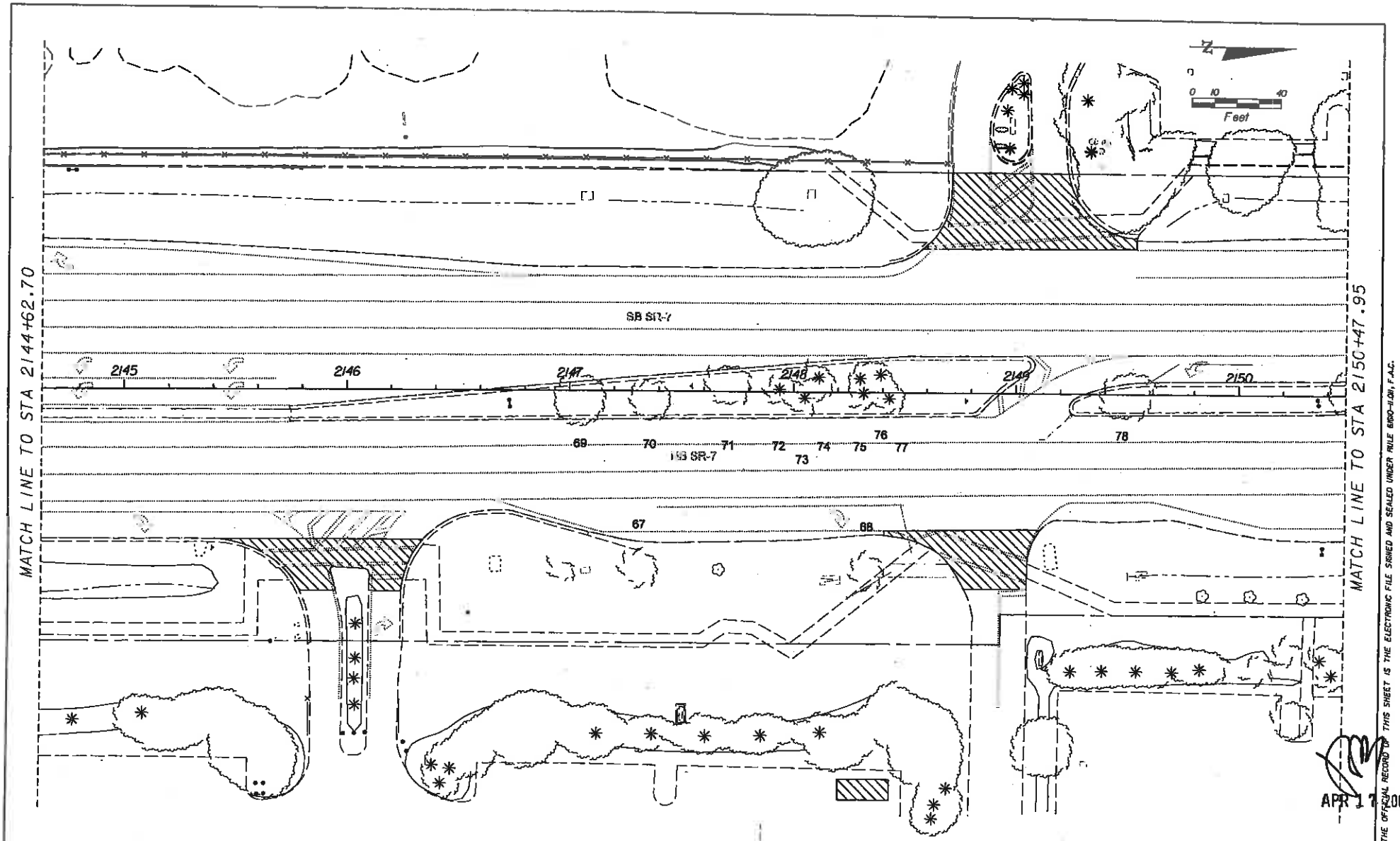

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL. 33409 (561) 478-8901
ROBERT BENTZ LA#6666903
CERTIFICATE OF AUTHORIZATION NO: 000205

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-18

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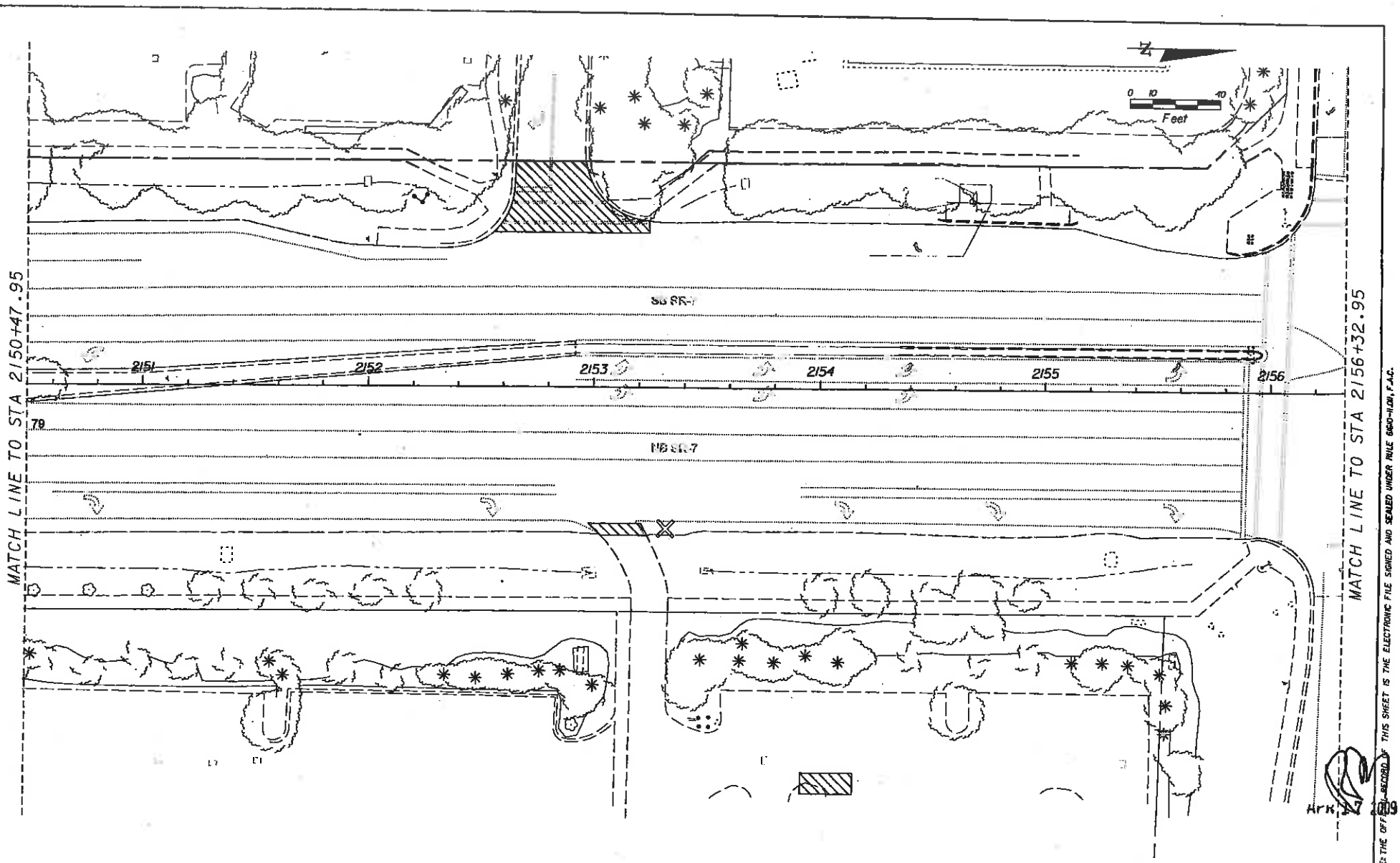

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 110 WEST PALM BEACH FL 33409 (561) 478-6594
ROBERT BENTZ LA REG # 667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-19

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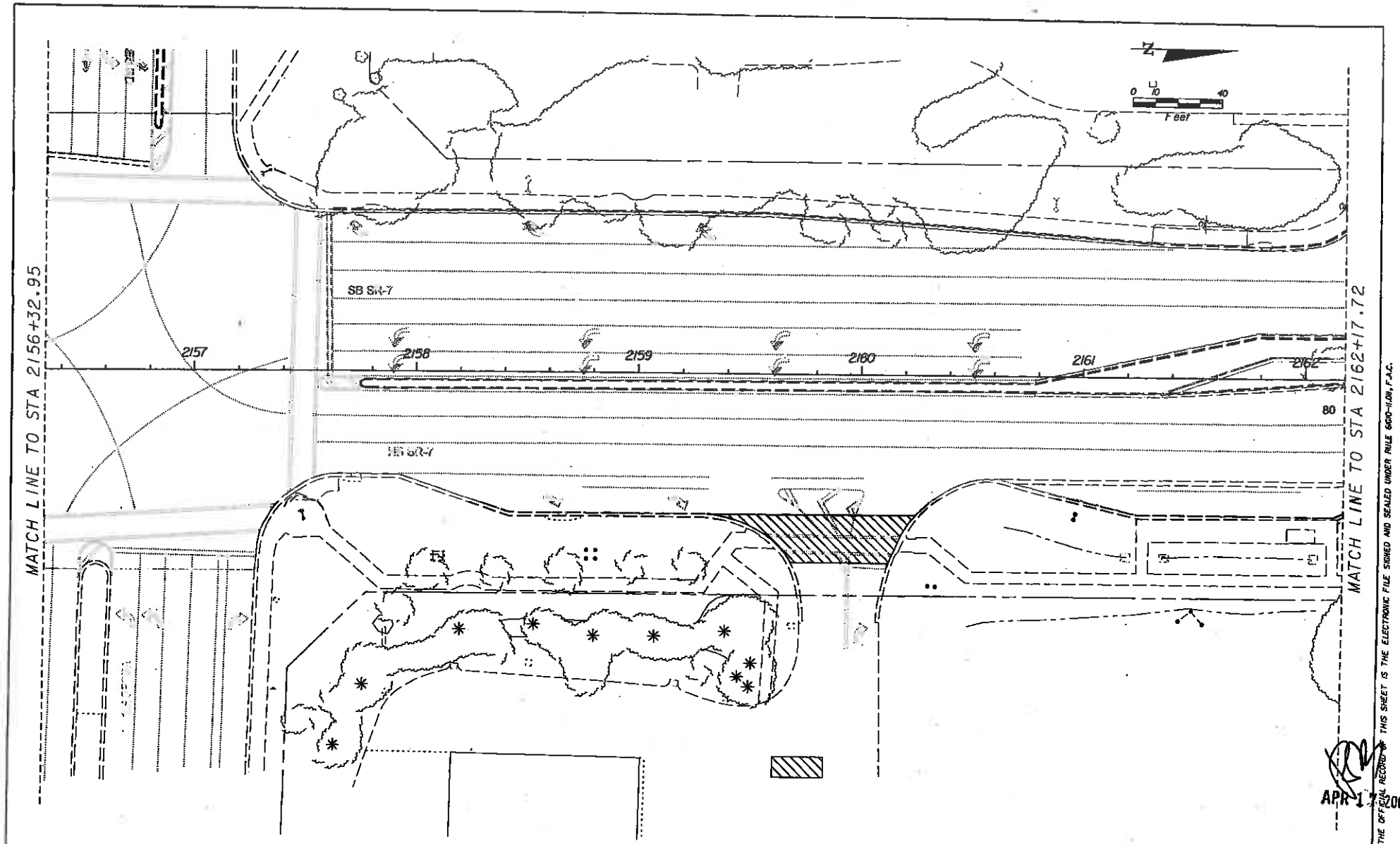

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000206
2101 CENTREPARK WEST DR. SUITE 109 WEST PALM BEACH FL 33409 (561) 478-6601
ROBERT BENTZ LA REG # 667

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-20

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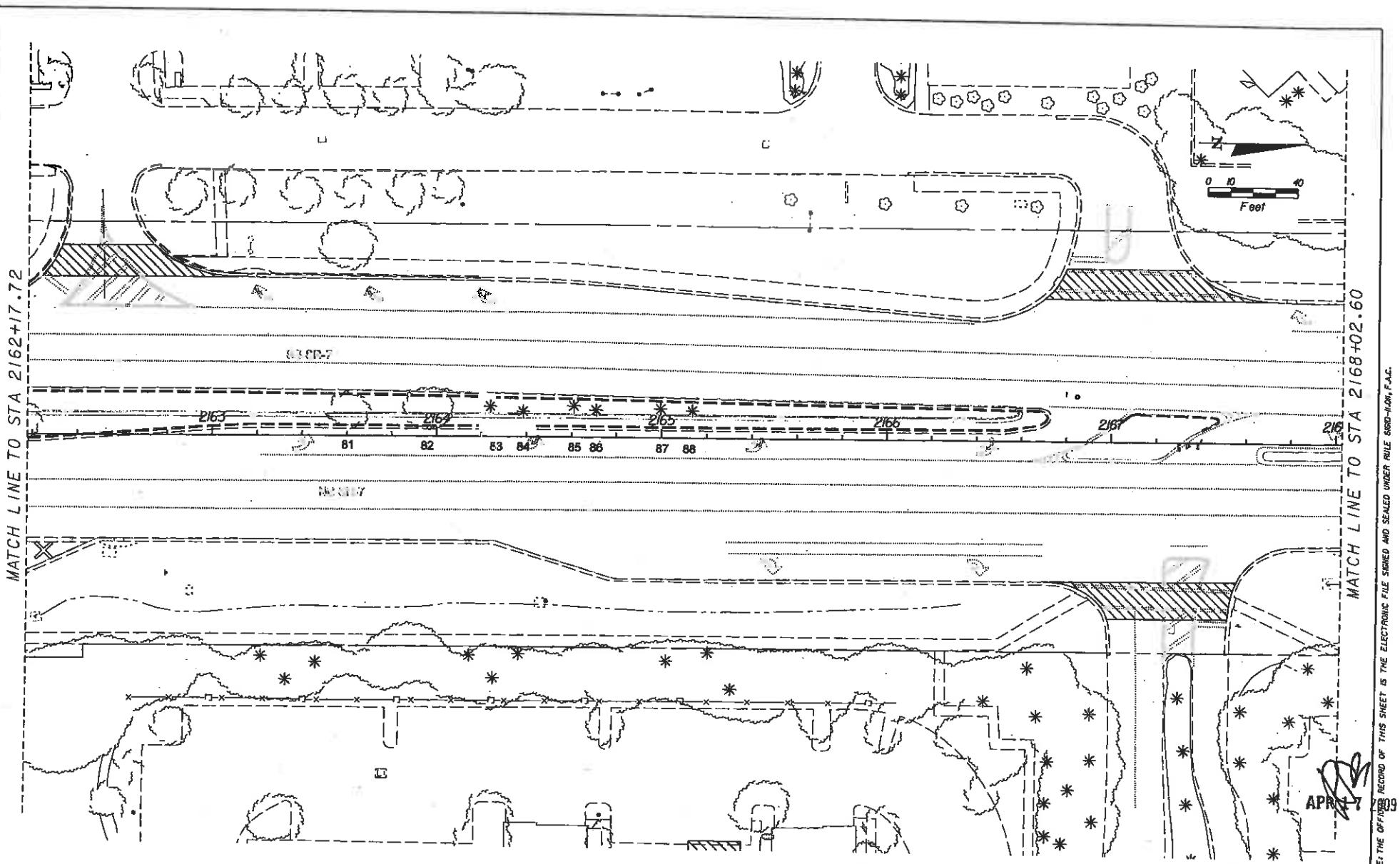

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-6501
ROBERT BENTZ LA#6667
CERTIFICATE OF AUTHORIZATION NO: 000606

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO.
LD-21

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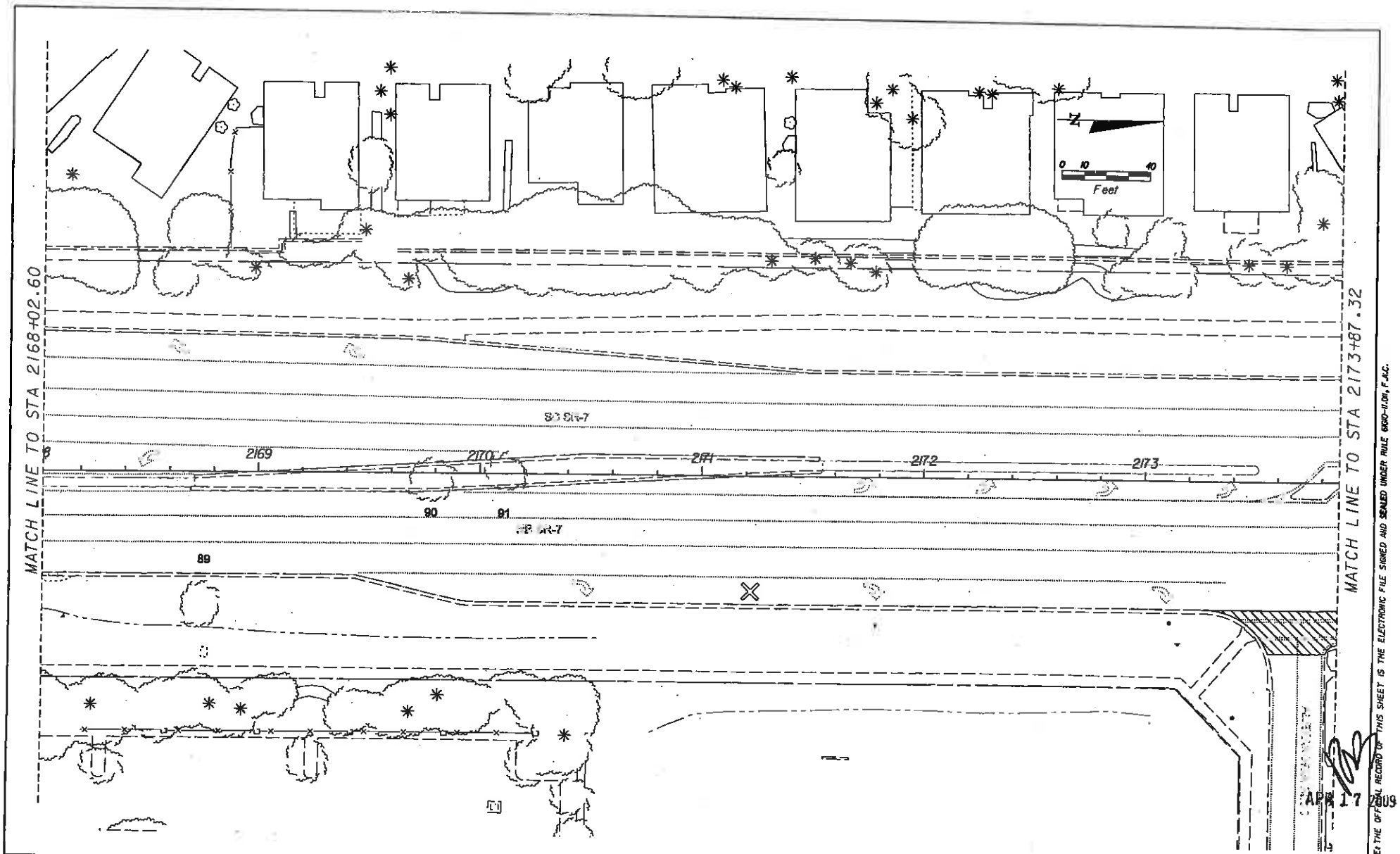

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6591
ROBERT BENTZ LA REG # 667
CERTIFICATE OF AUTHORIZATION NO: 000205

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-22

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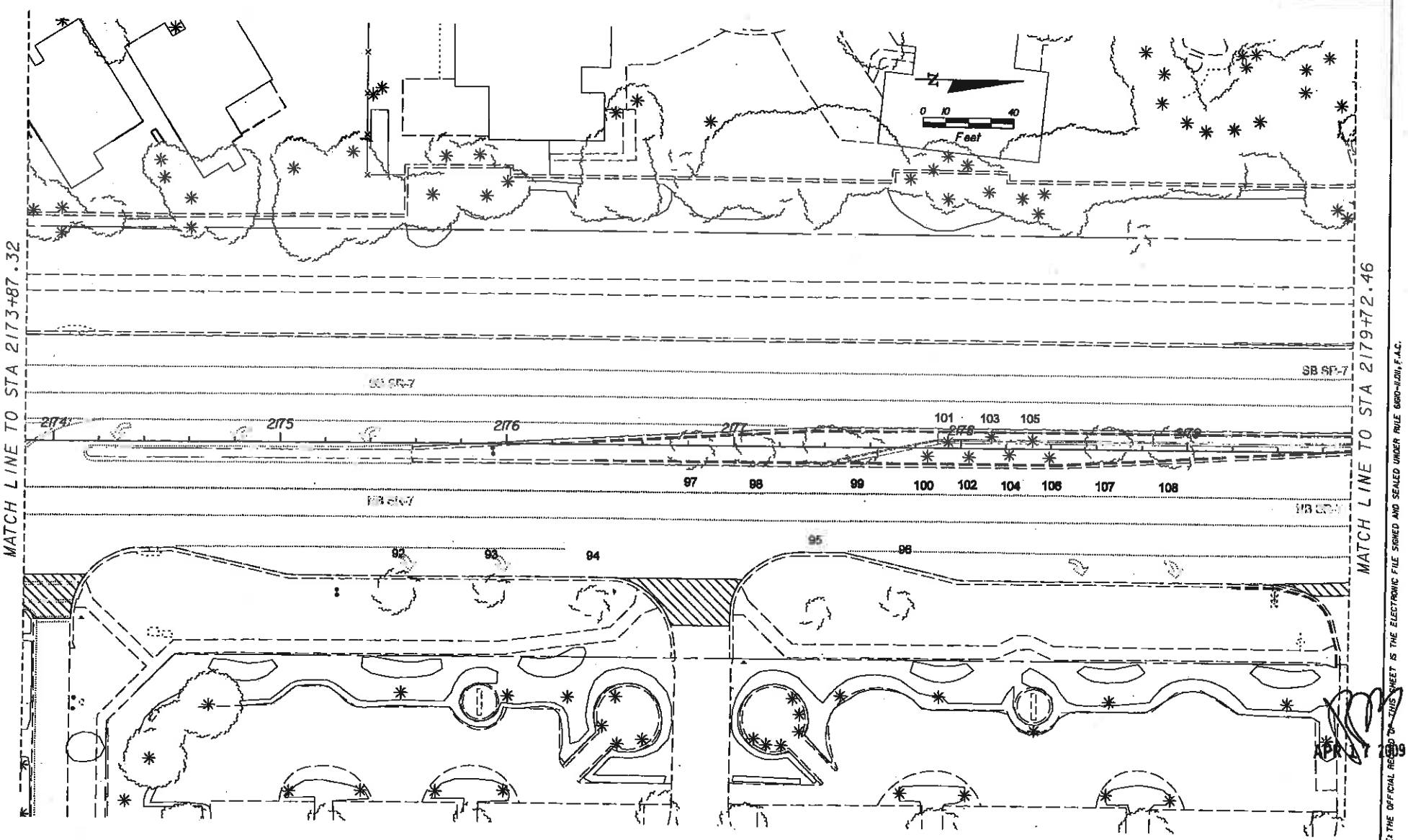

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APR 17 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6601
ROBERT BENTZ LA REG # 667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-23

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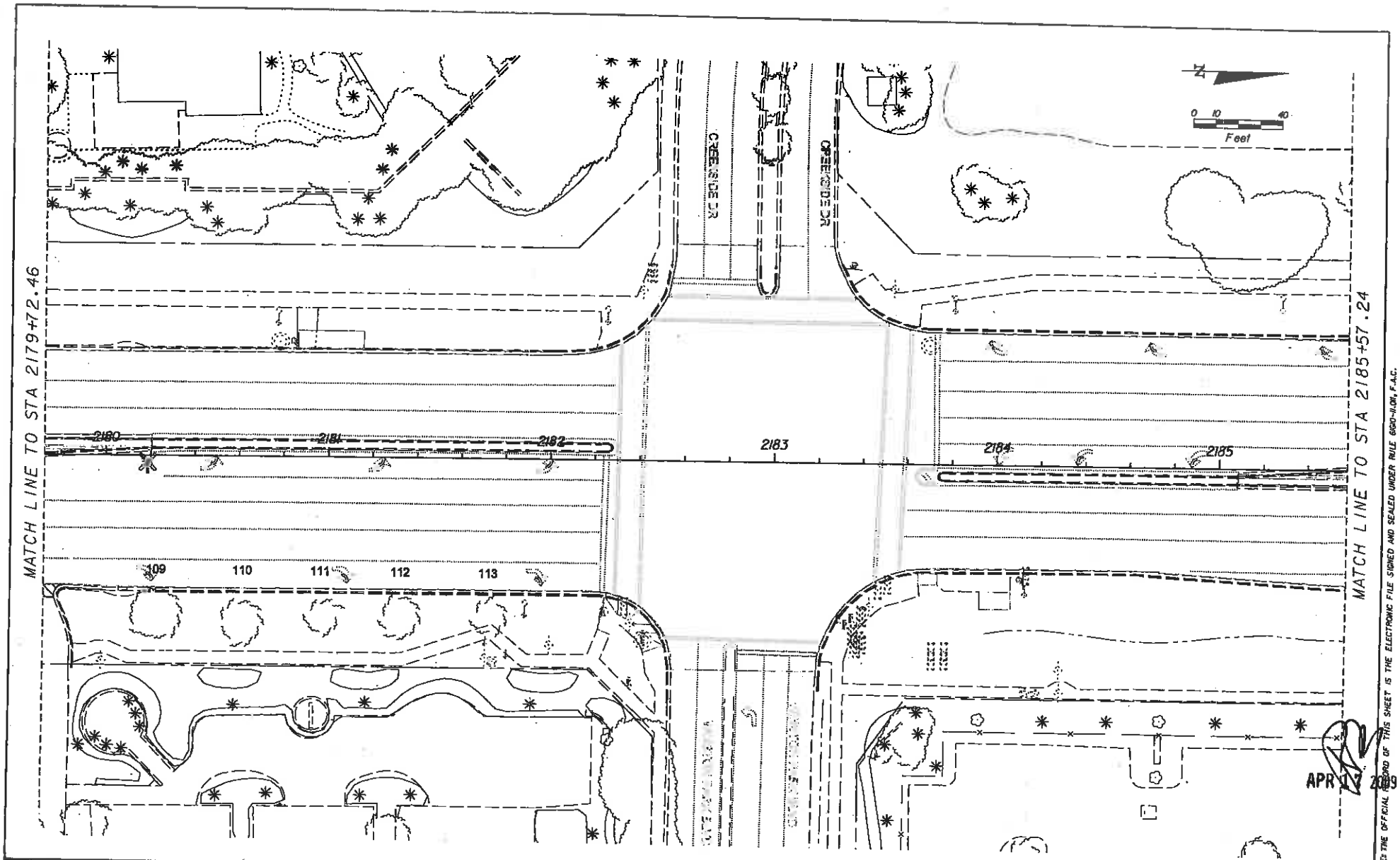

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 150 WEST PALM BEACH FL. 33409
561-478-6281
ROBERT BENTZ LA REG # 997
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-24

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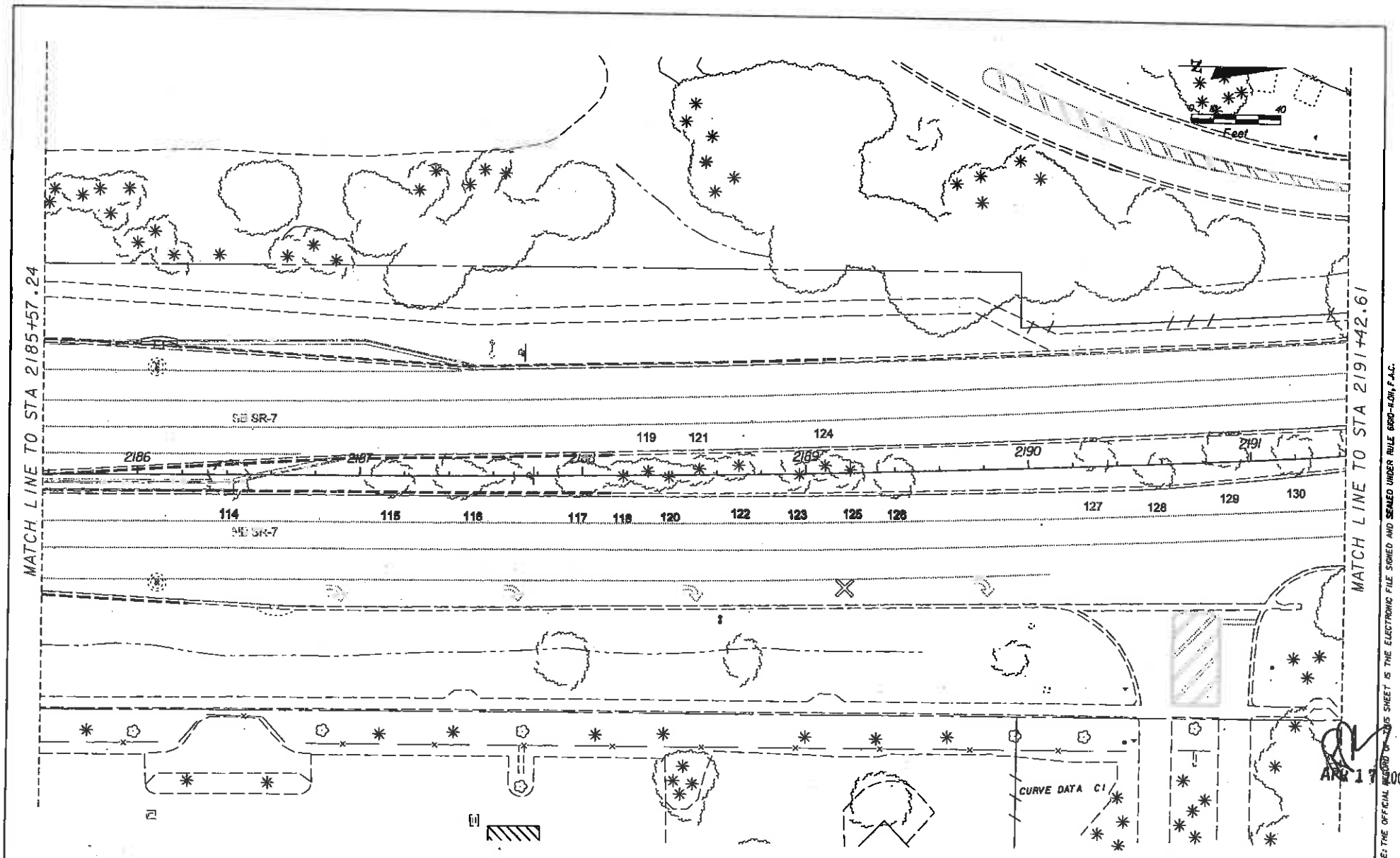

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 150 WEST PALM BEACH FL 33409 (561) 478-6551
ROBERT BENTZ LA#6667
CERTIFICATE OF AUTHORIZATION NO: 0003206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-25

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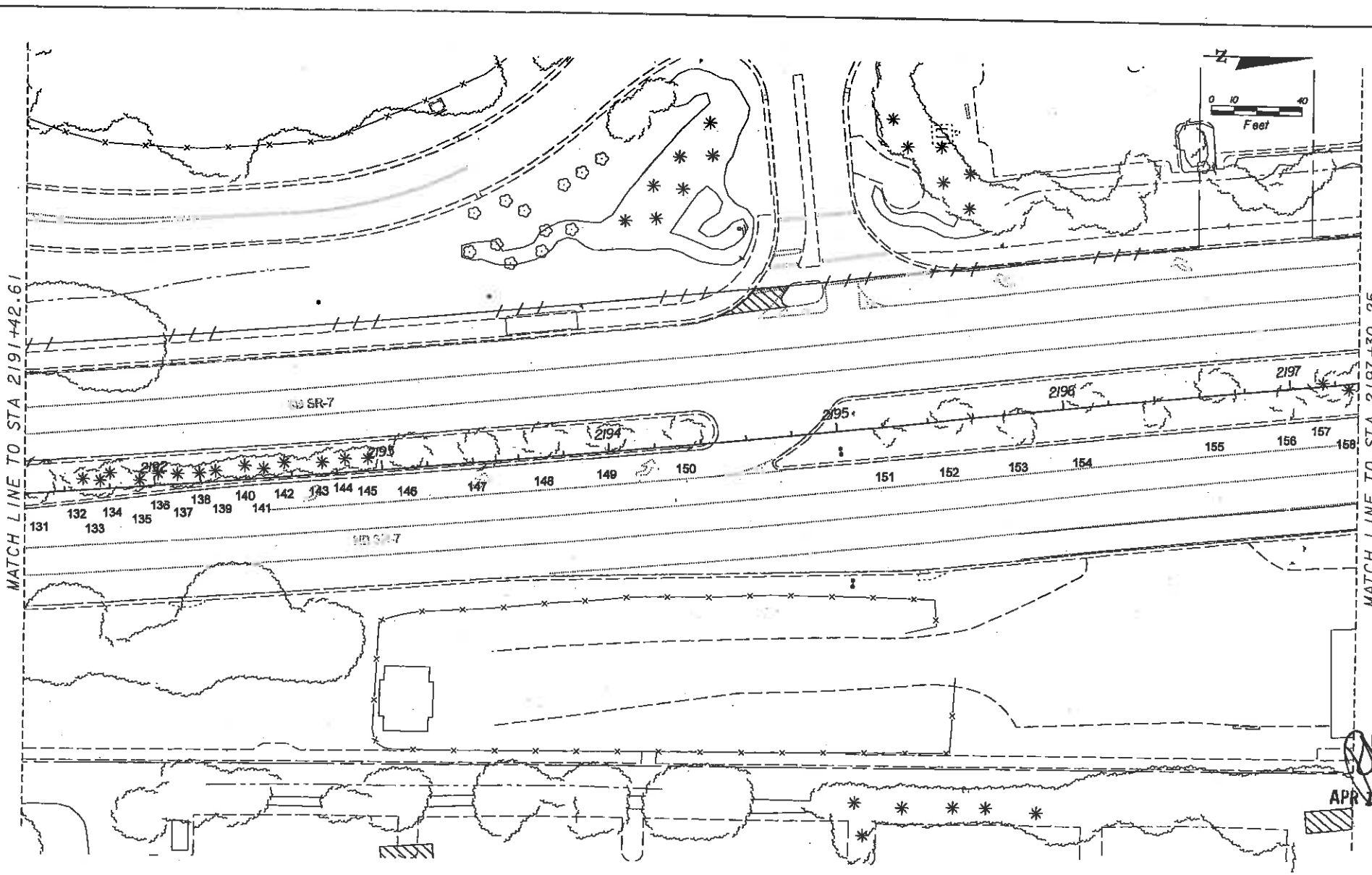

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL. 33409 (561) 478-6601
ROBERT BENTZ LA REG # 0.7
CERTIFICATE OF AUTHORIZATION NO: 000205

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-26

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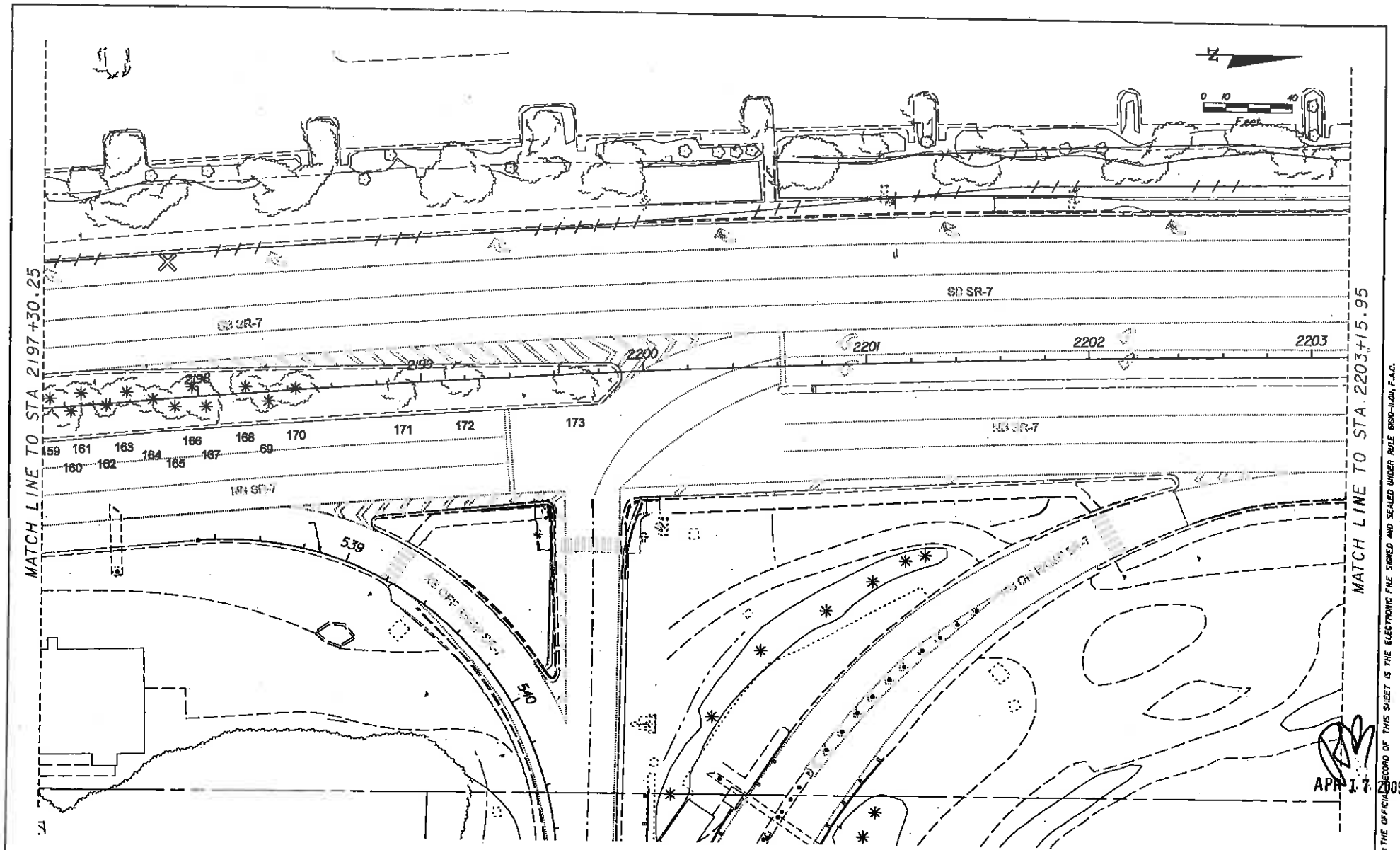

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 150 WEST PALM BEACH FL 33409 (561) 478-6601
ROBERT BENTZ LA REG # 667
CERTIFICATE OF AUTHORIZATION NO: 000205

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-27

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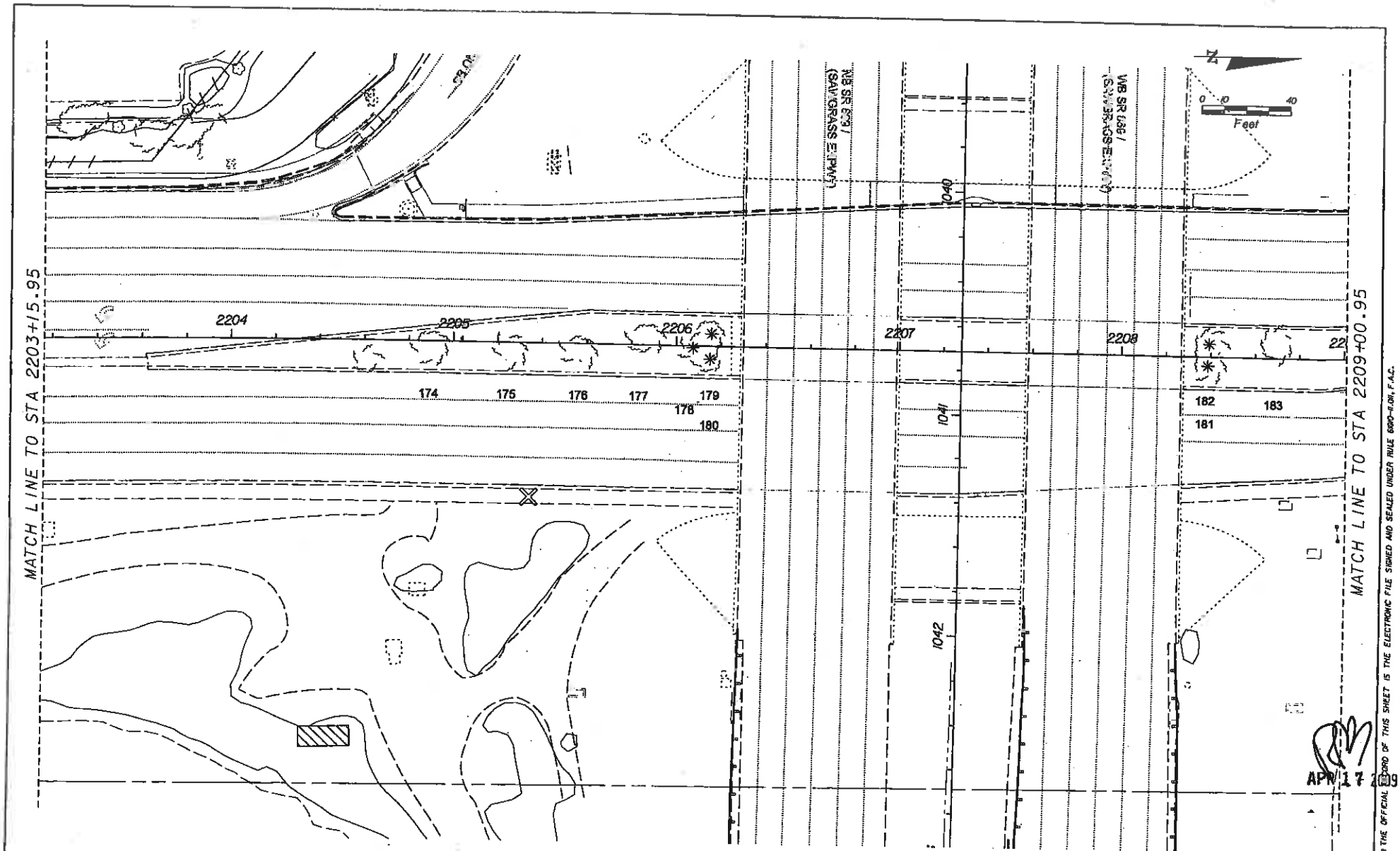

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000206
2121 CENTREPARK WEST DR. SUITE 109 WEST PALM BEACH FL 33409 (561) 478-6591
ROBERT BENTZ LA REG # 697

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-28

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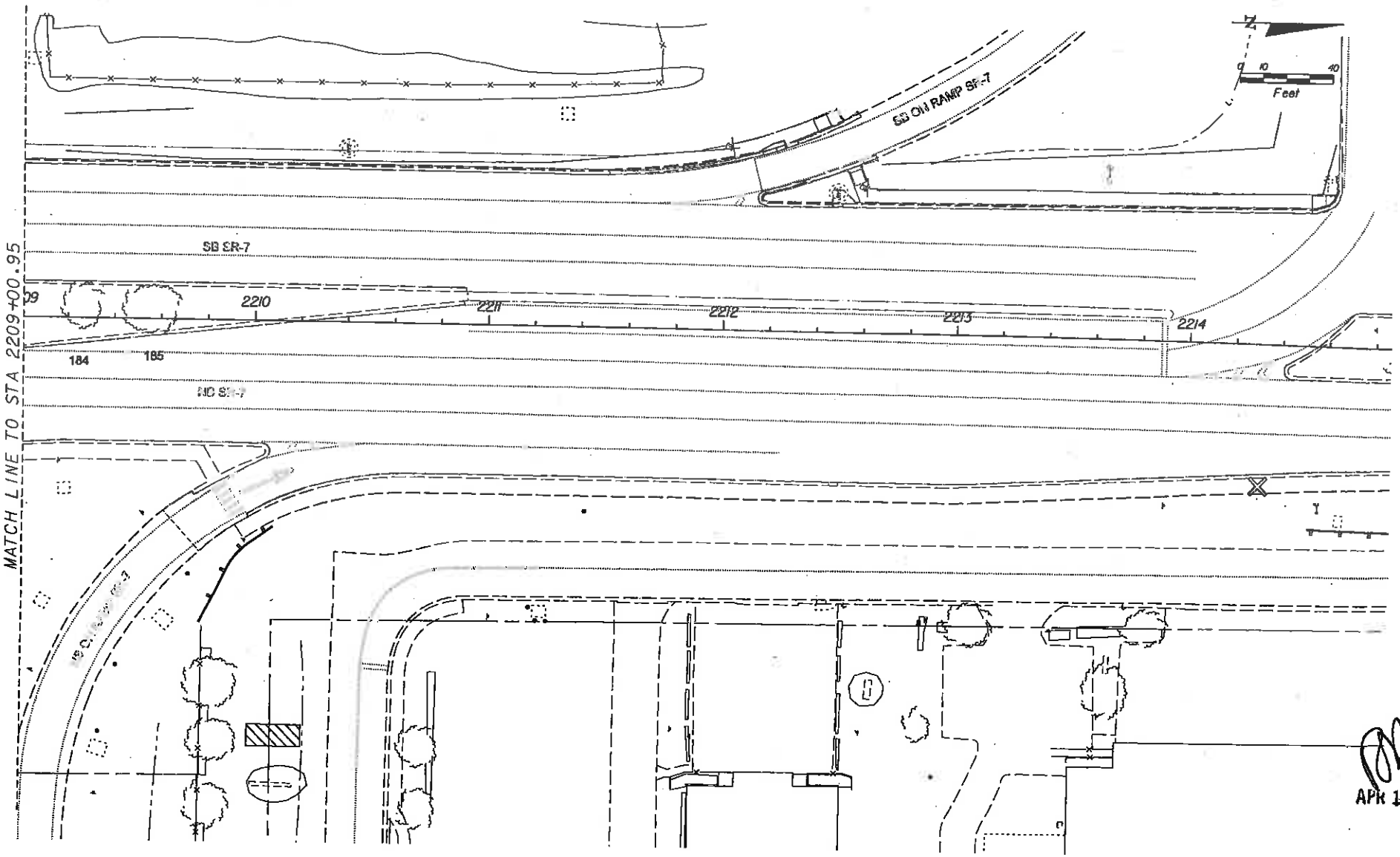

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2161 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-1501
ROBERT BENTZ LA REG # 667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-29

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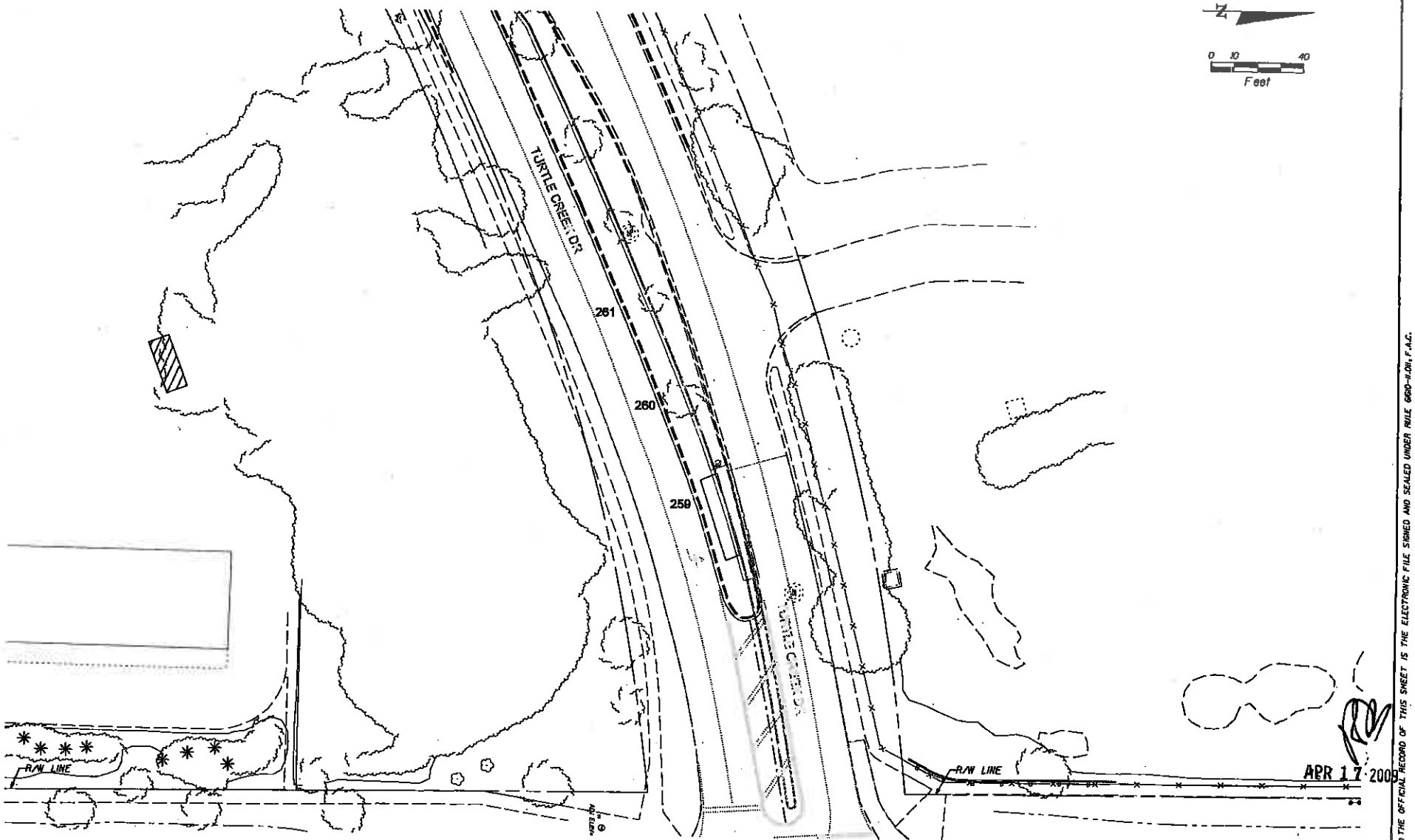

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 150 WEST PALM BEACH FL 33409 (561) 478-6501
ROBERT BENTZ LARC0617
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-30

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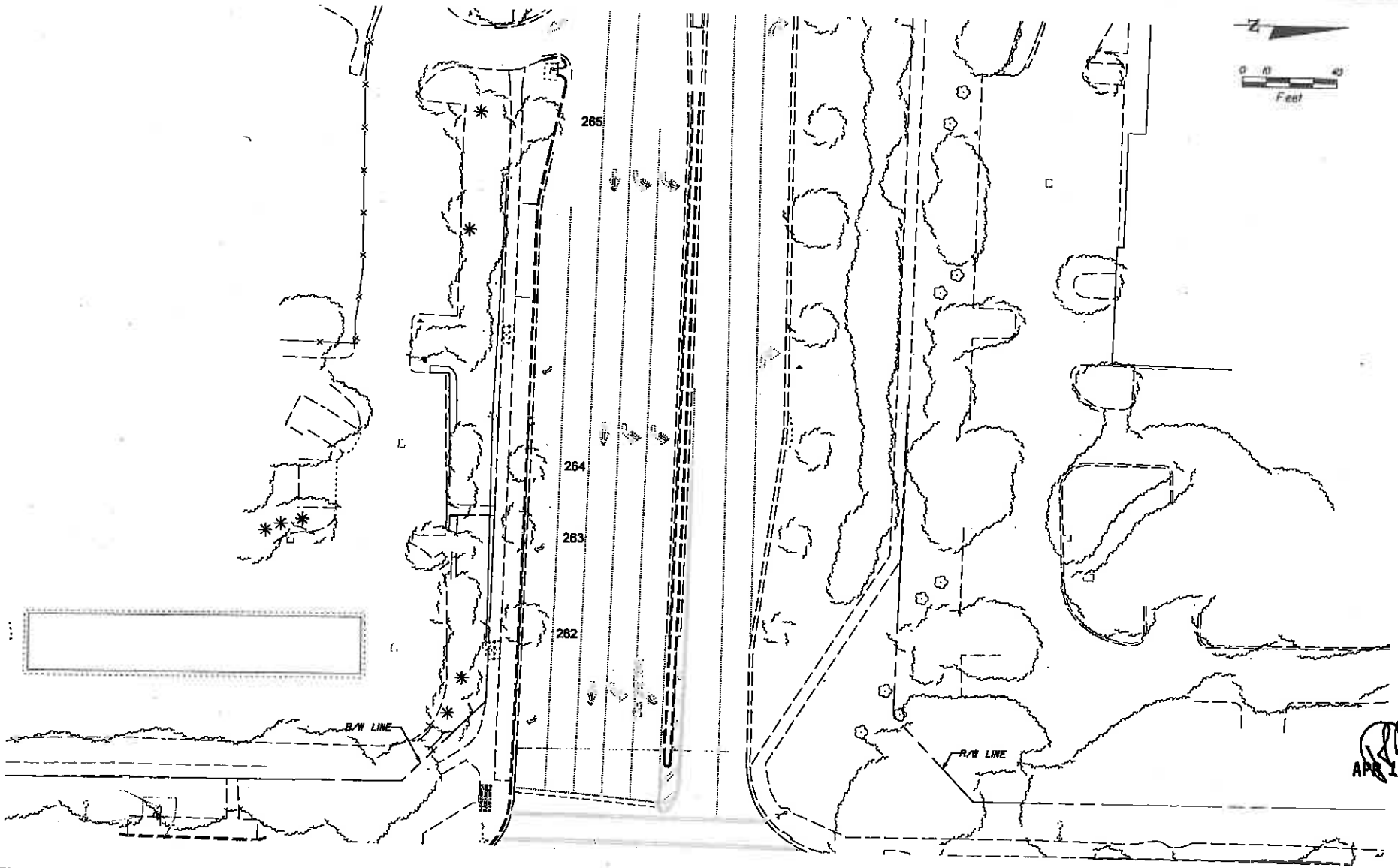

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTERPARK WEST DR. SUITE 120 WEST PALM BEACH FL. 33409 (561) 478-6591
ROBERT BENTZ LA REG # 667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-31

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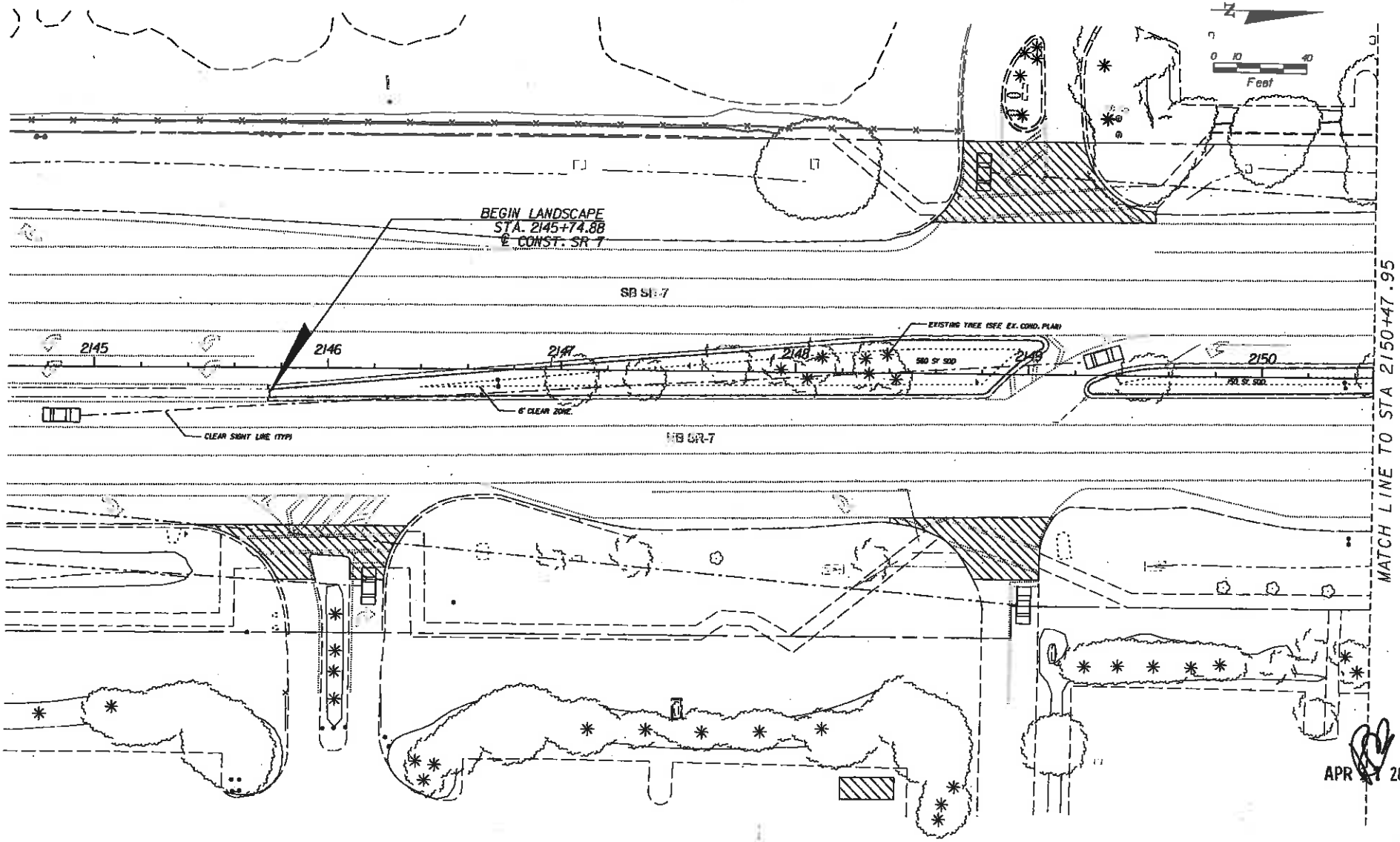

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-6591
ROBERT BENTZ LA REG #667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-32

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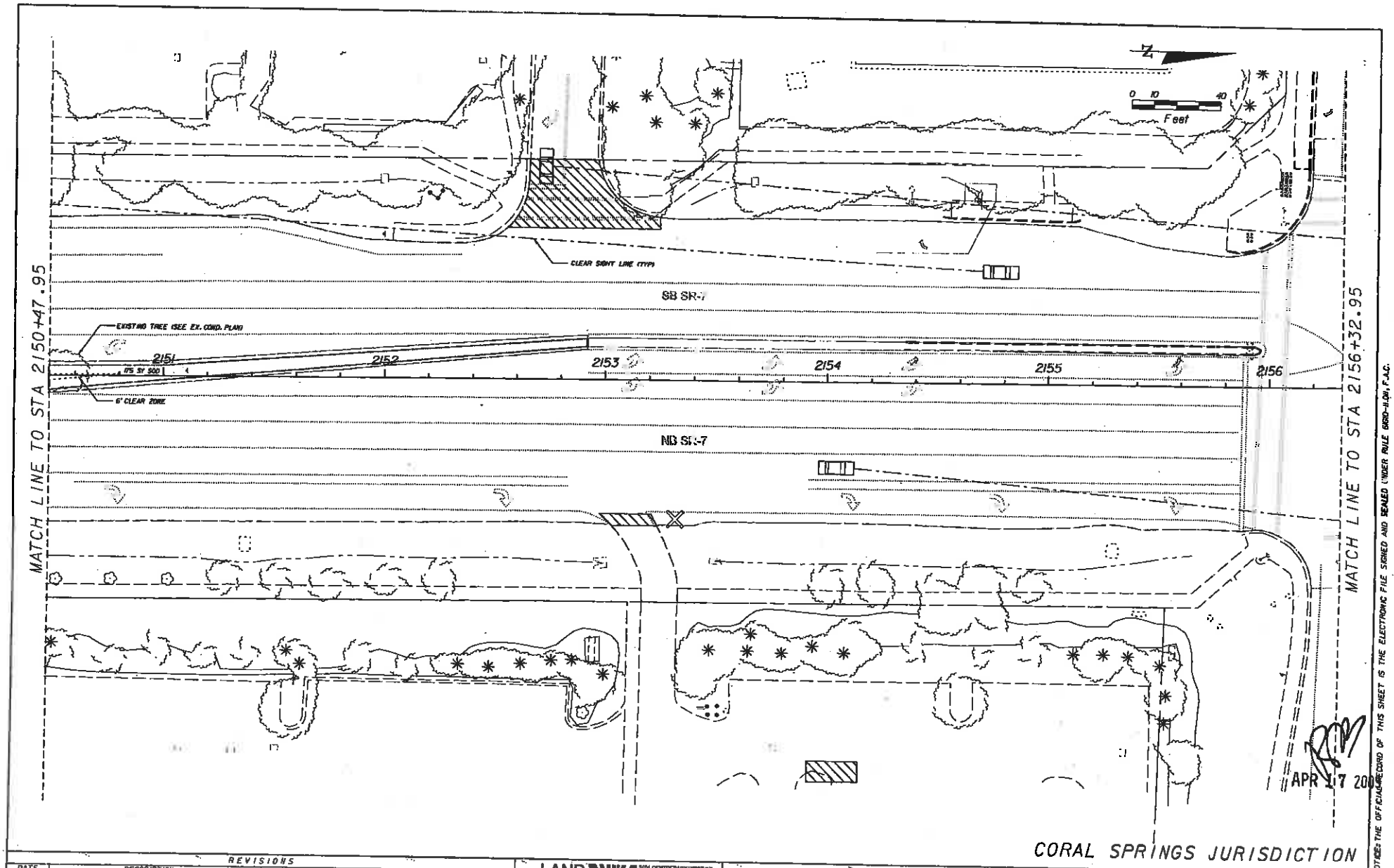

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000206

2101 CENTREPARK WEST DR.
SUITE 120
WEST PALM BEACH FL
33409
(561) 478-6501
ROBERT BENTZ LA#6668

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-33

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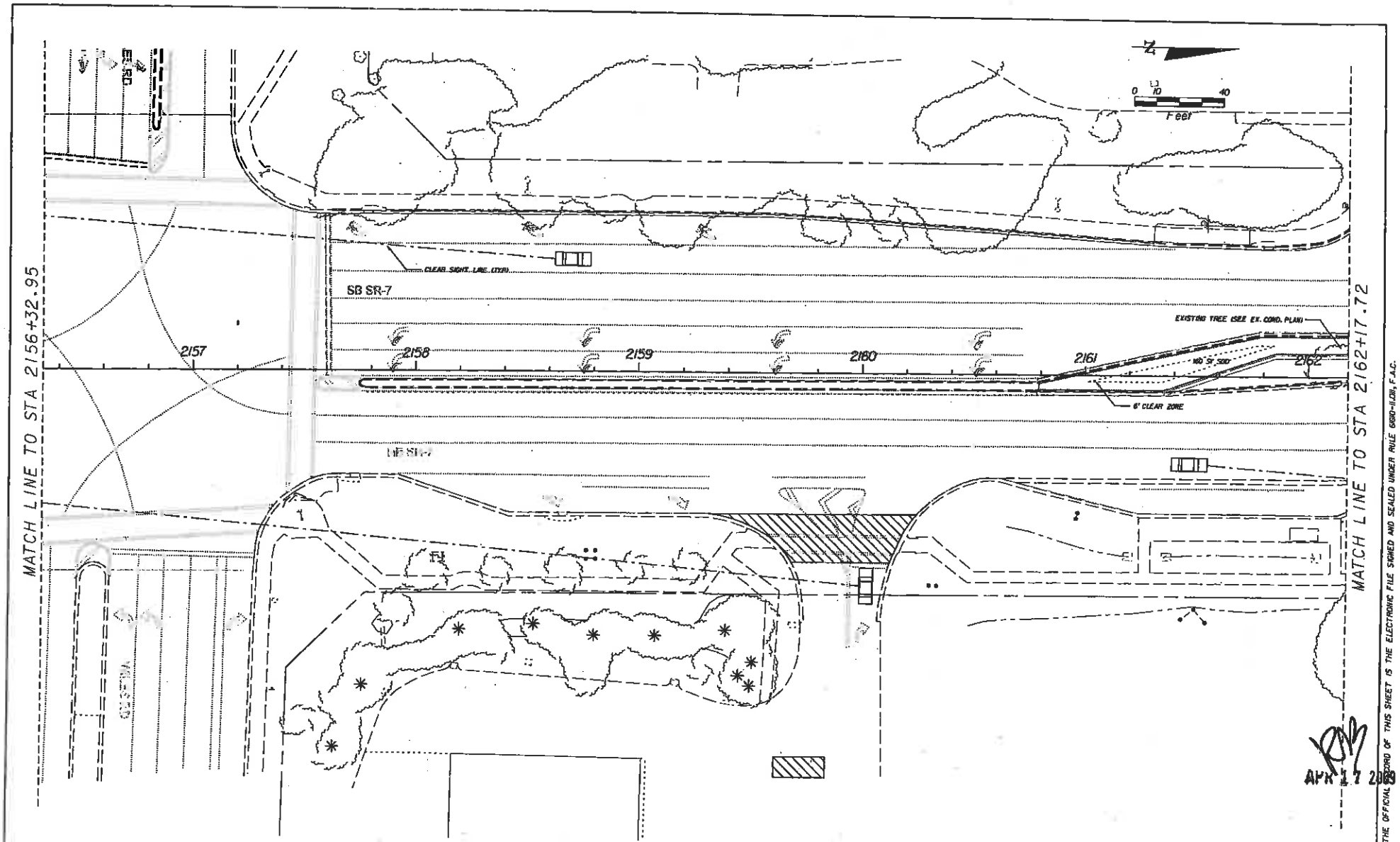

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL. 33409 (561) 478-6201
ROBERT BENTZ LARES #907
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-34

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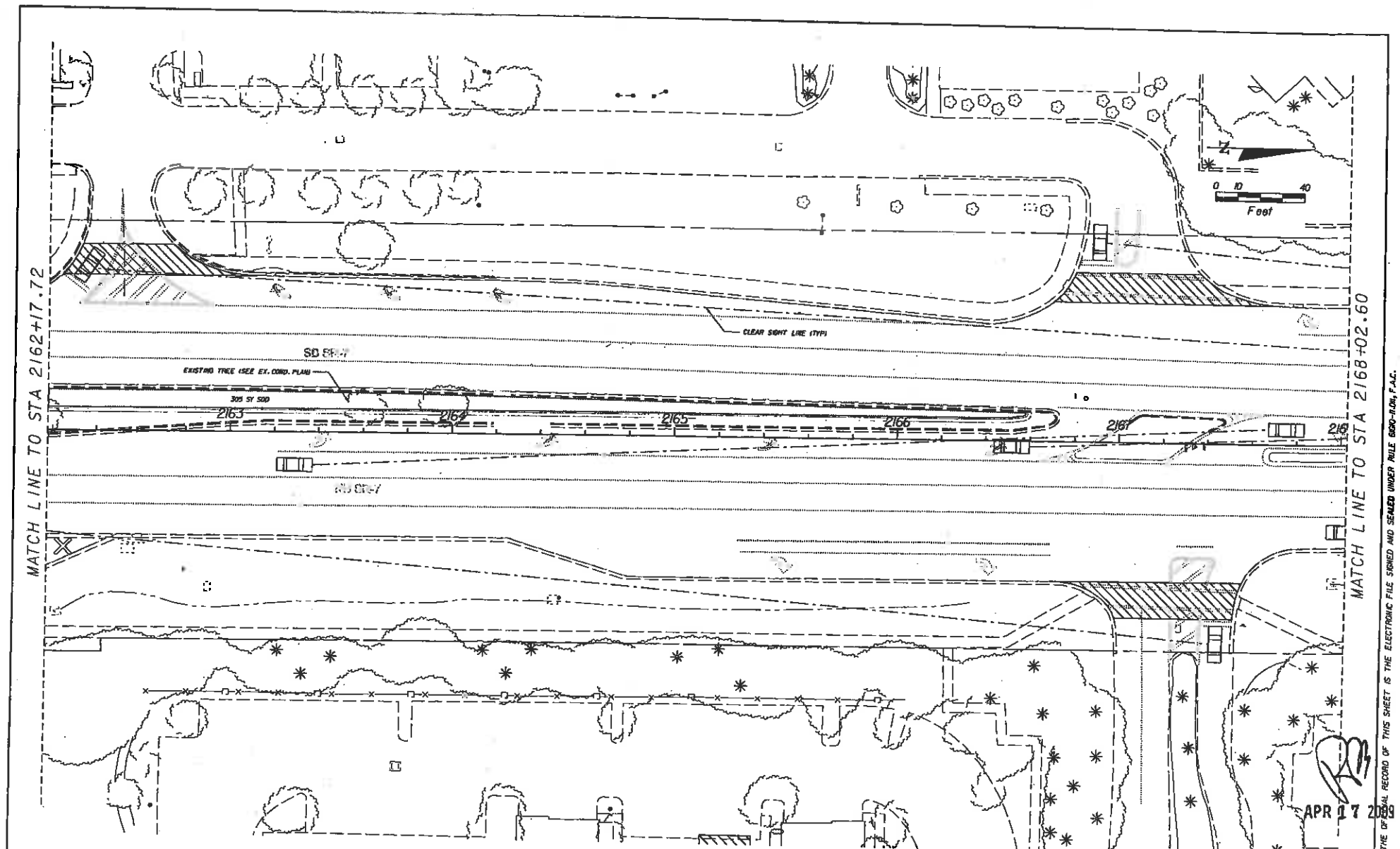

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000206

2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-6501

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

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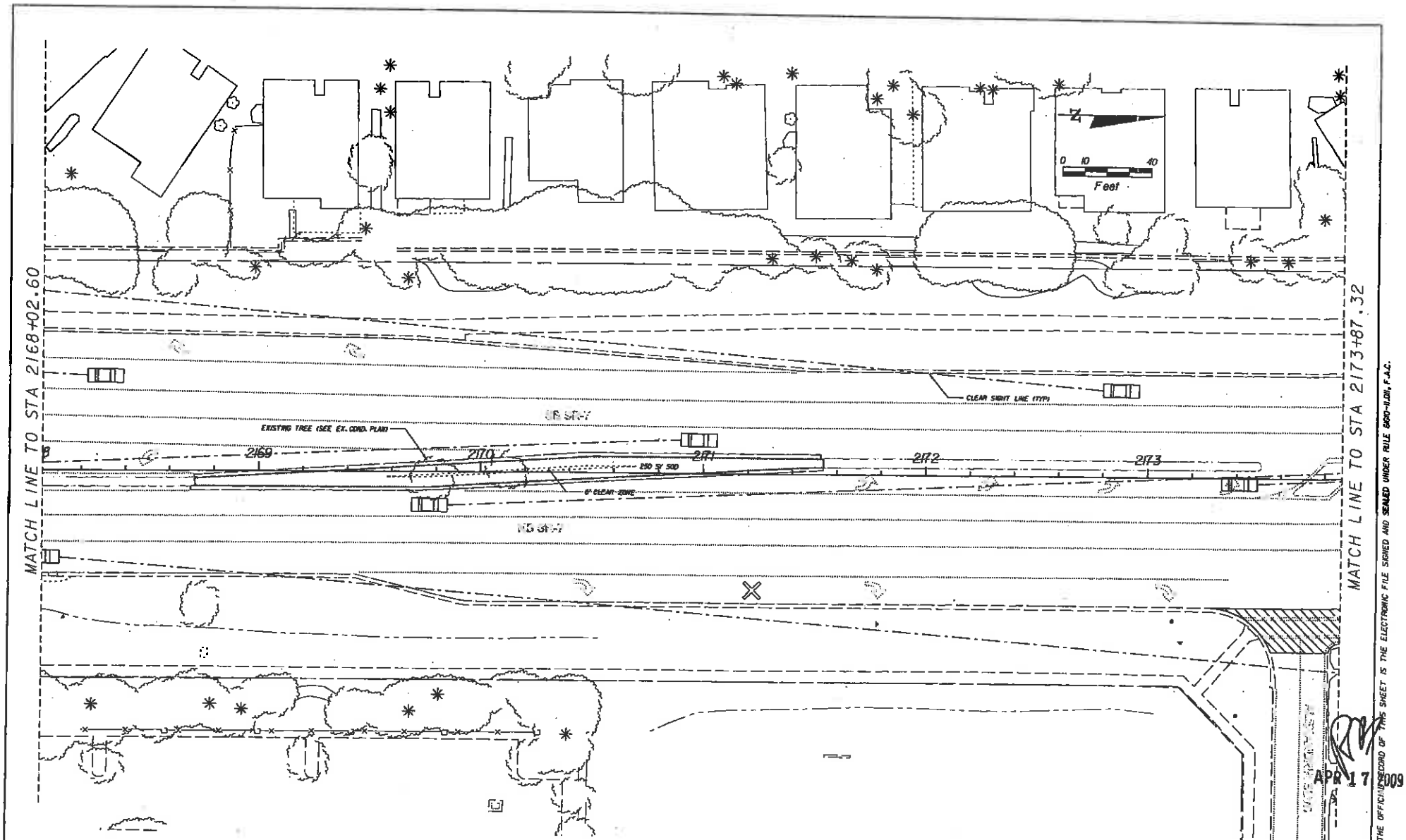

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL.
33409
(561)478-8501
ROBERT BENTZ LA REG # 6667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-36

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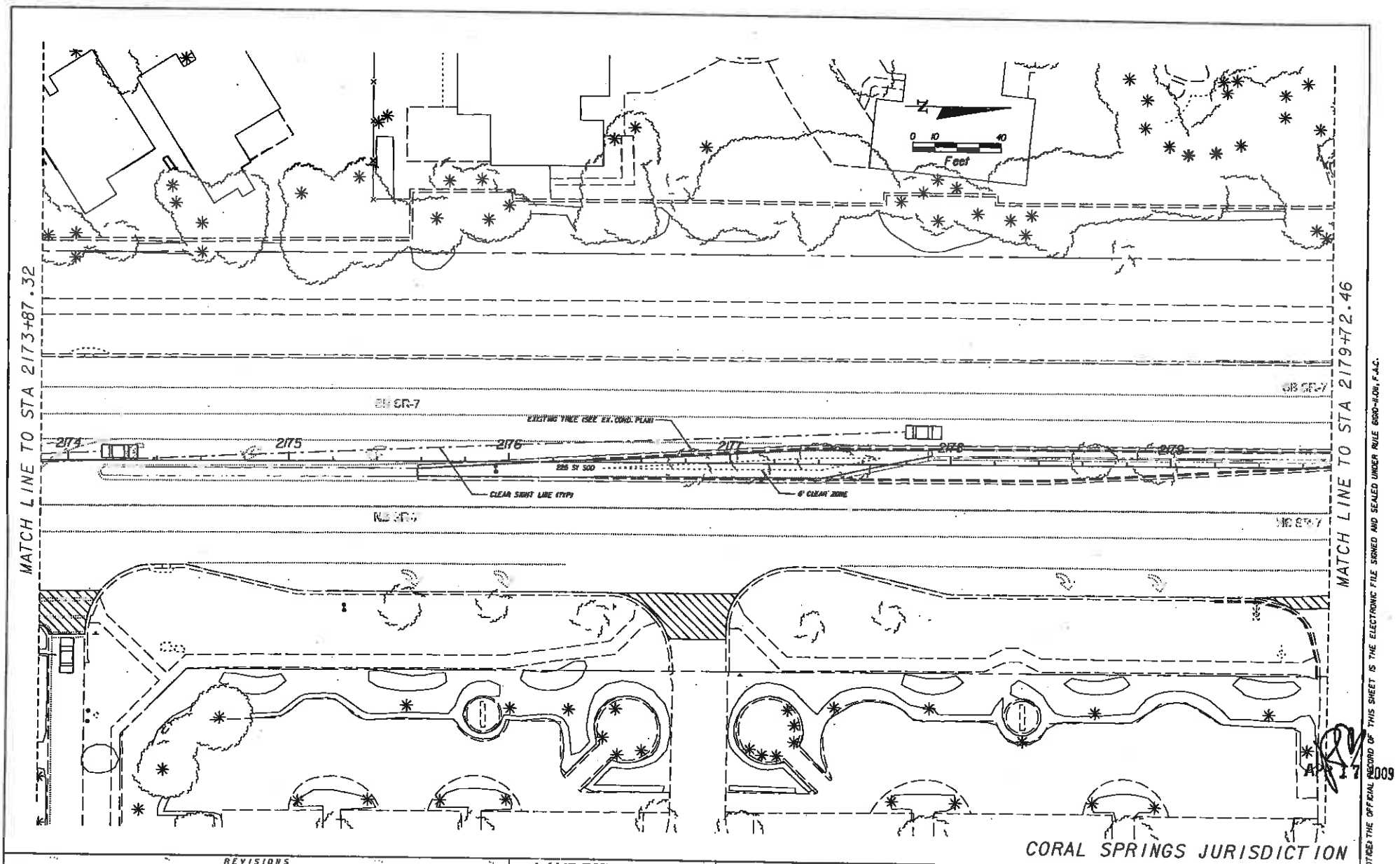

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6501
ROBERT BENTZ LA#6647
CERTIFICATE OF AUTHORIZATION NO: 000205

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-37

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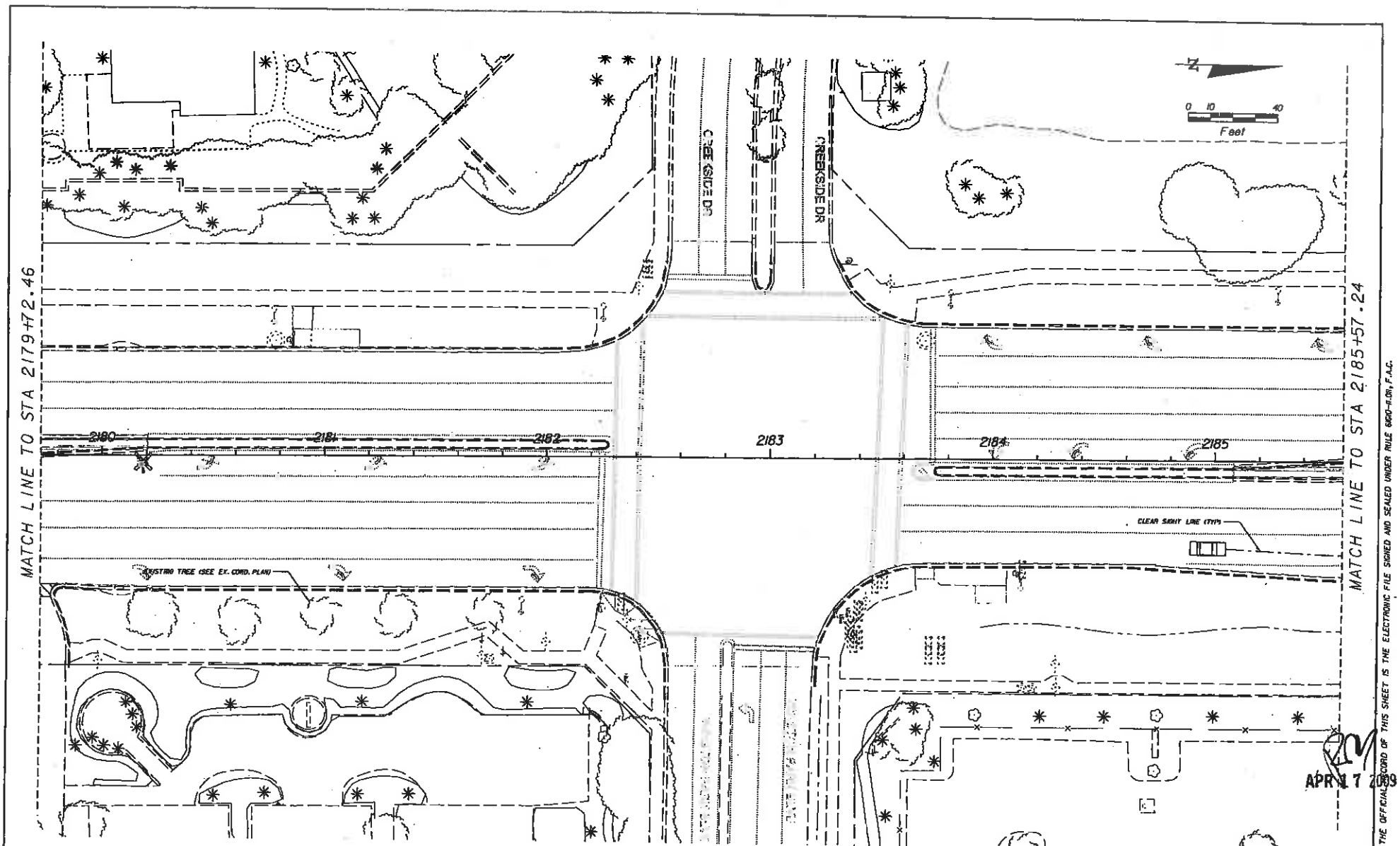

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000206
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6521
ROBERT BENTZ LA REG # 667

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-38

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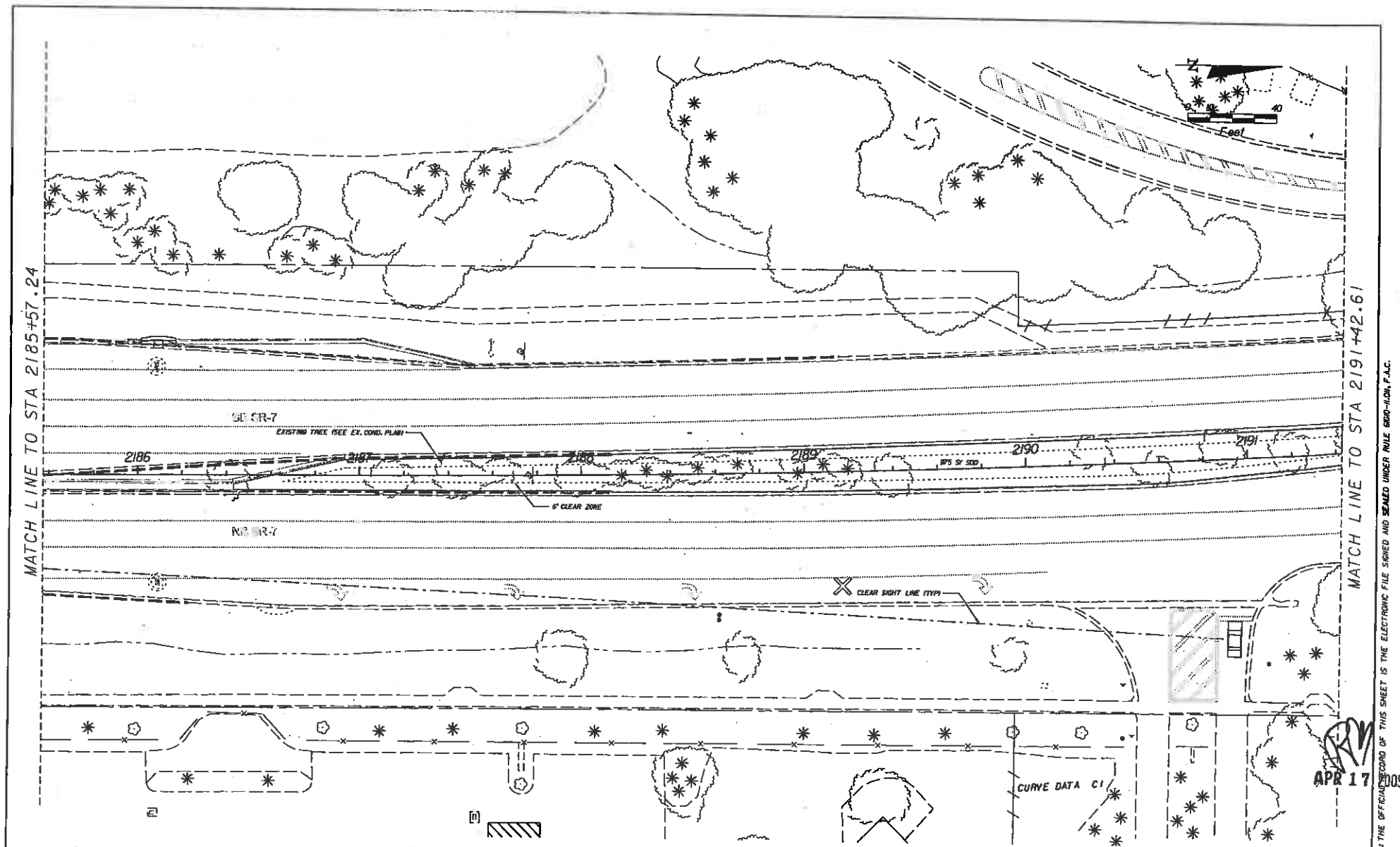

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000206

2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561)-478-6591
ROBERT BENTZ LA REG # 6667

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-39

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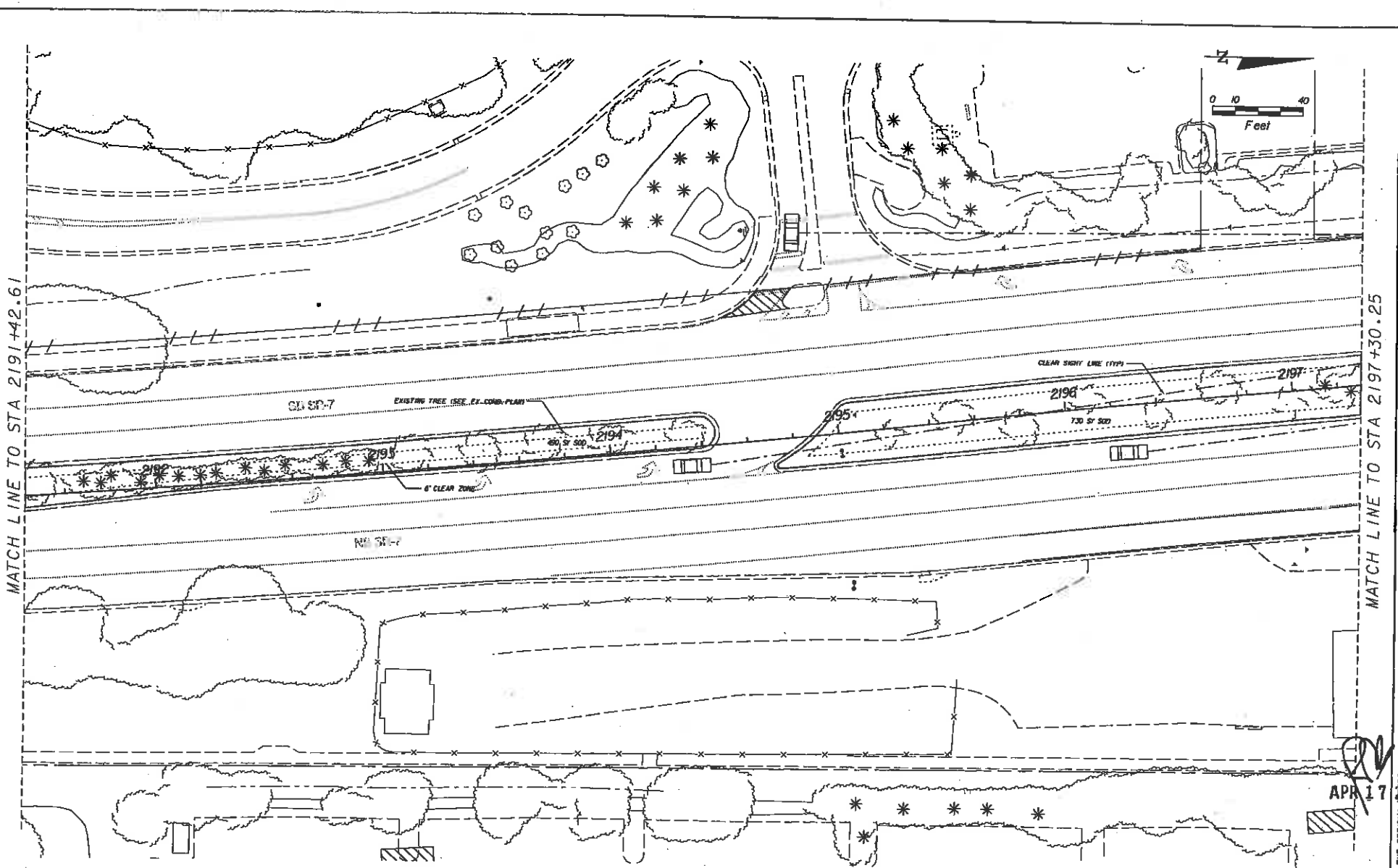

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DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL. 33409 (561) 478-6801
ROBERT BENTZ LA REG # 1111
CERTIFICATE OF AUTHORIZATION NO: 000205

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-40

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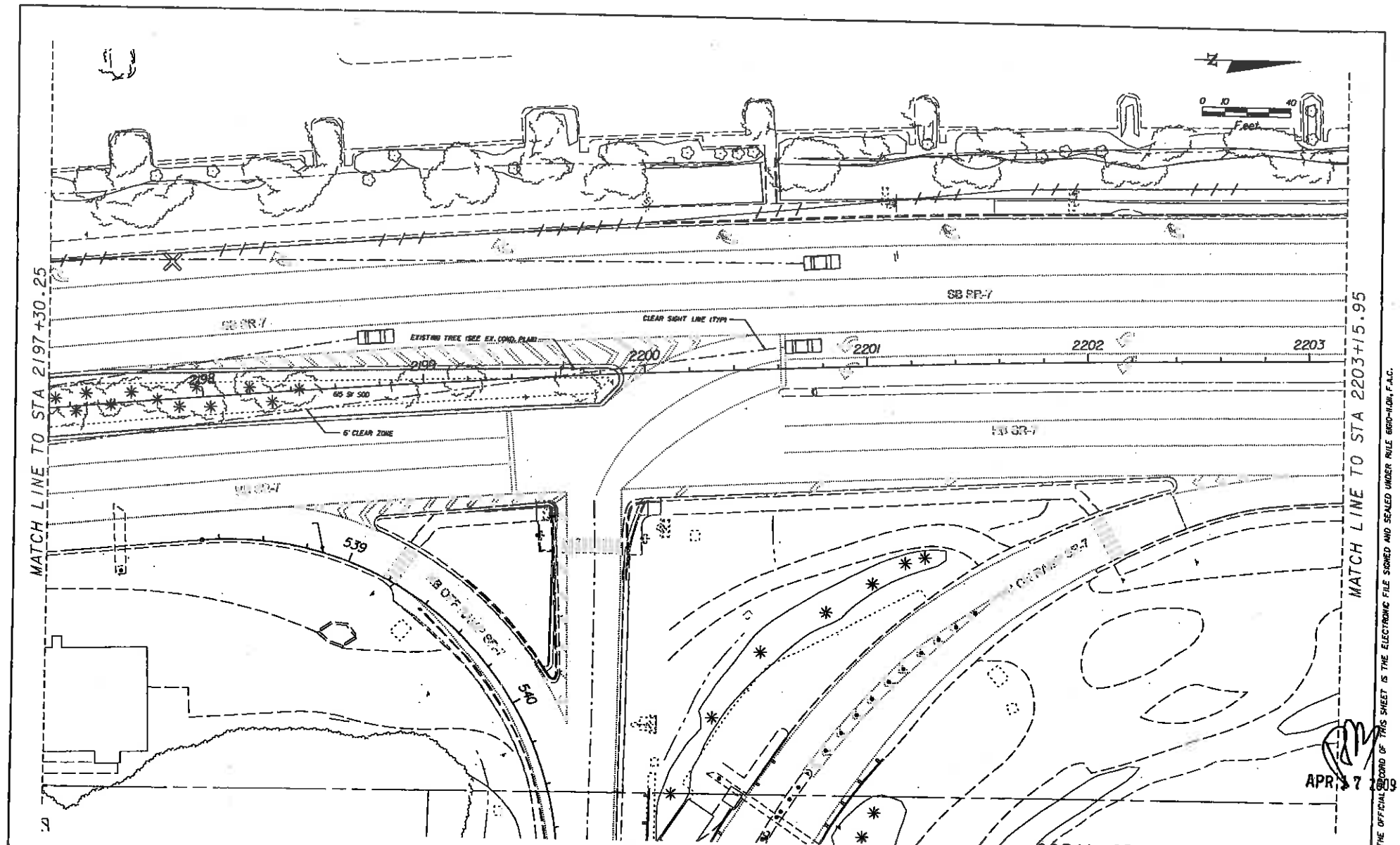

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 101 WEST PALM BEACH FL 33409 (561)478-8501
ROBERT BERTZ LA REG # 667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-41

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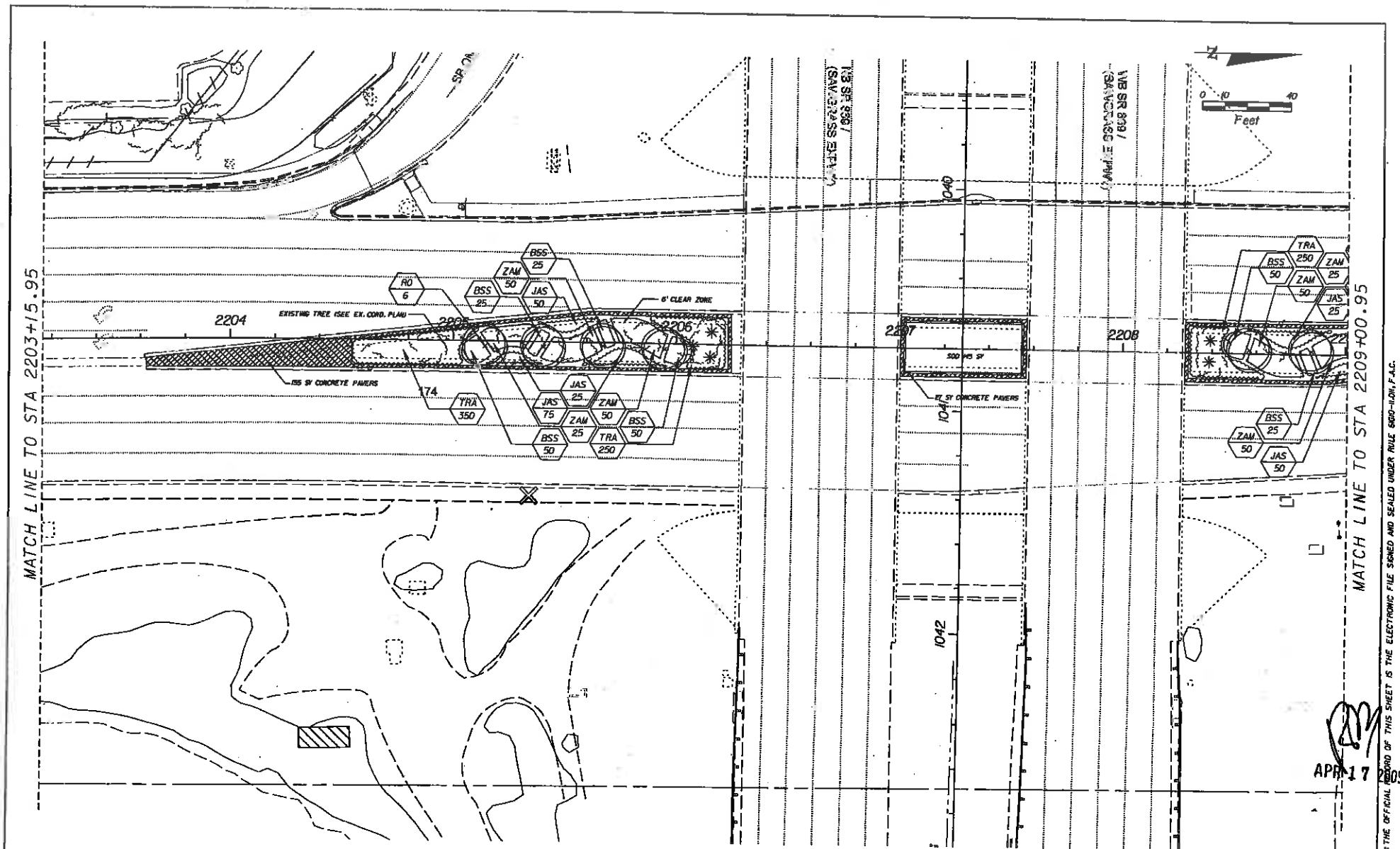

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTERPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 897
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-42

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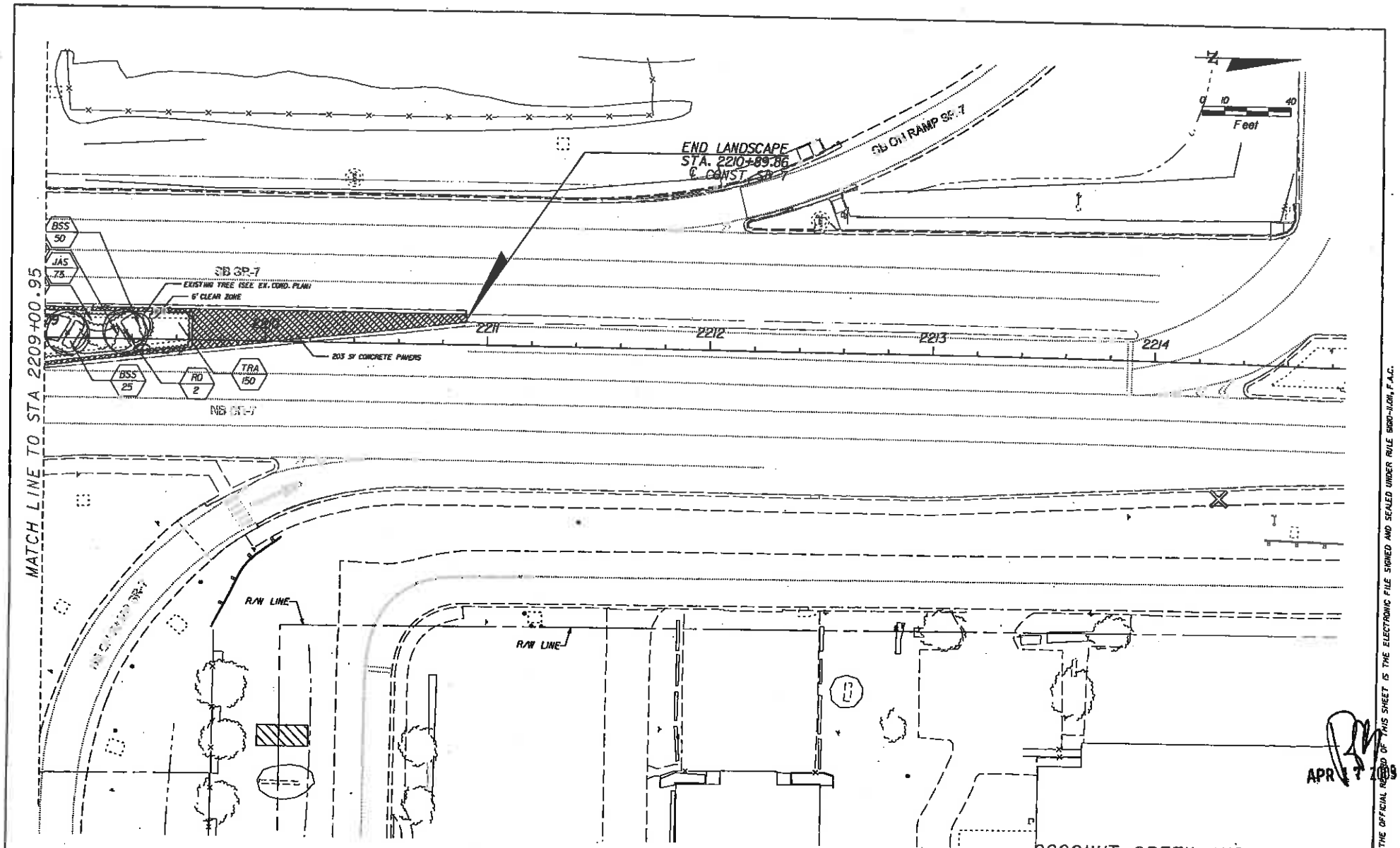

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 0667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-43

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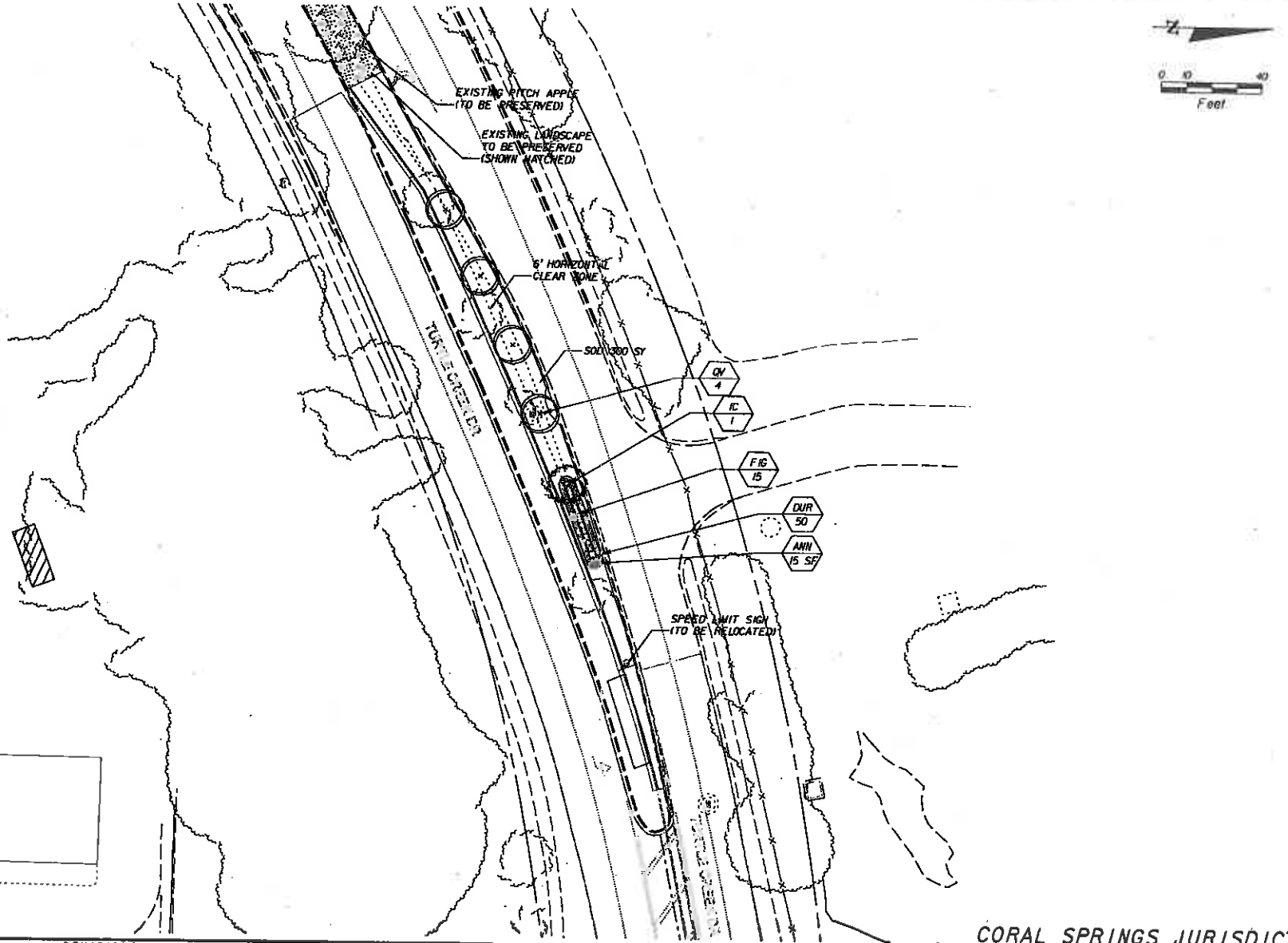

APR 17 2009

CORAL SPRINGS JURISDICTION

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 0002676
2081 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6501
ROBERT BENTZ LA REG # 667

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-44

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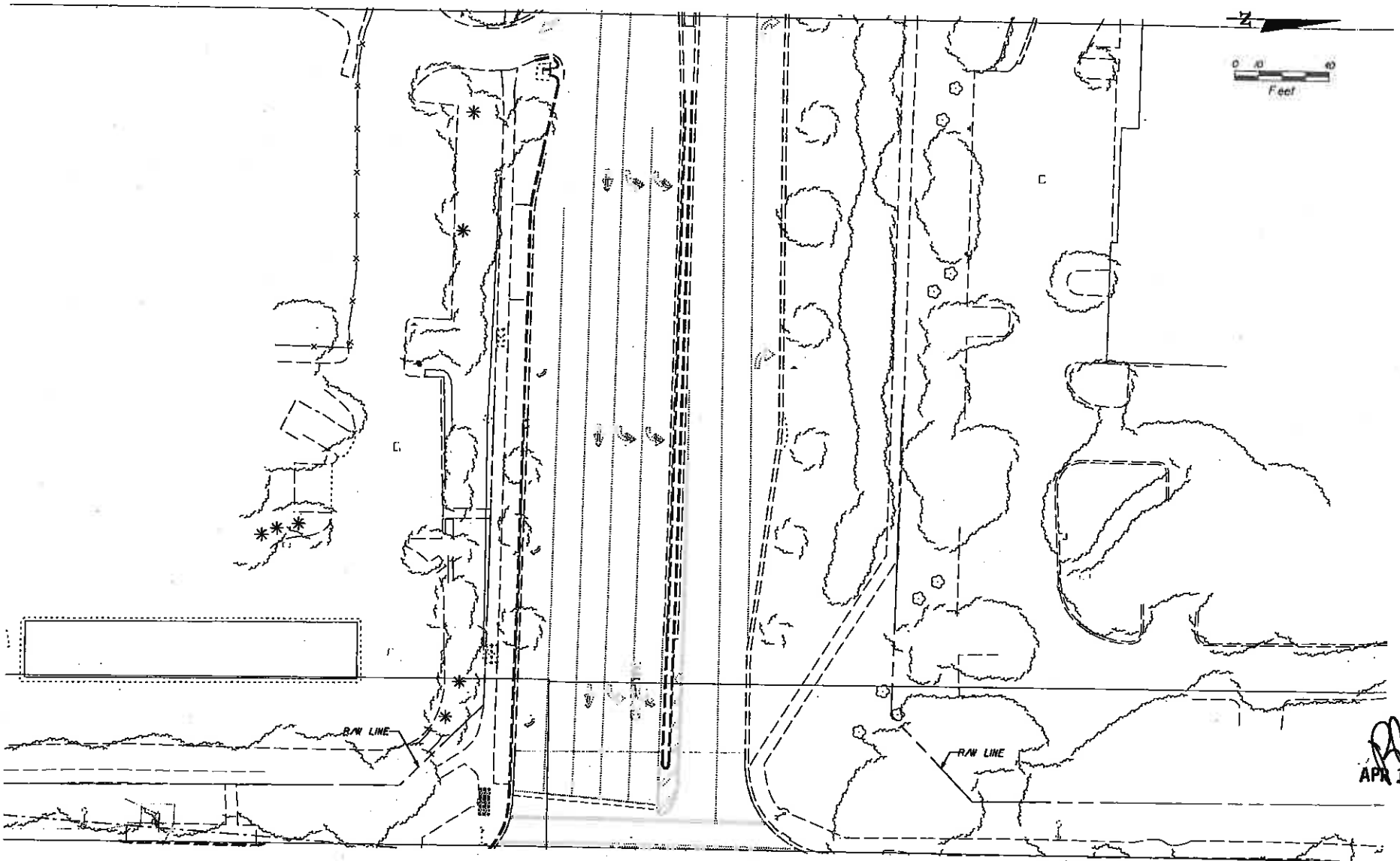

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 109 WEST PALM BEACH FL 33409 (561) 478-6501
ROBERT BENTZ LA REG # 667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-45

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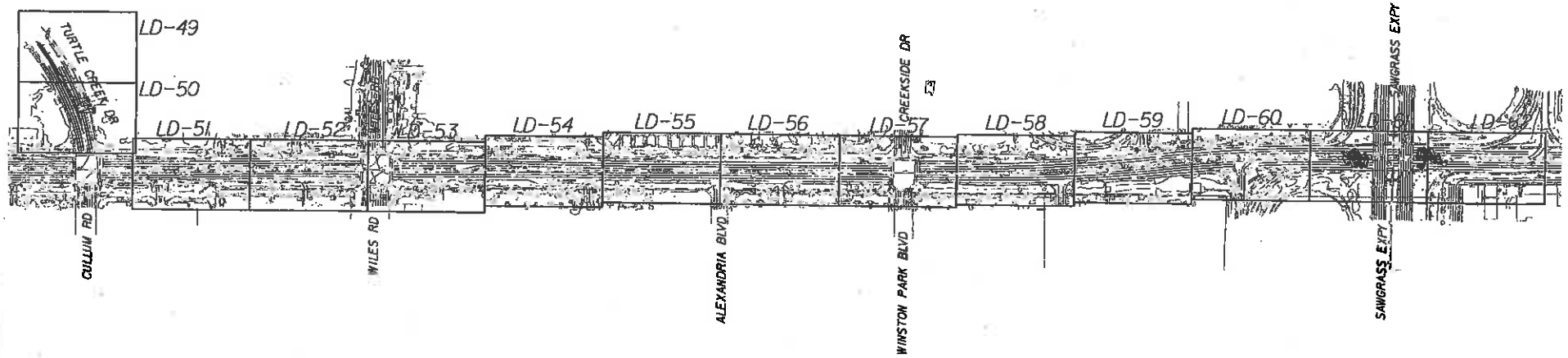

APR 17 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6591
ROBERT BENTZ LA REG # 667
CERTIFICATE OF AUTHORIZATION NO: 000205

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

KEY SHEET
IRRIGATION KEY SHEET

SHEET NO.
LD-46

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SUMMARY OF PAY ITEMS

PAY ITEM	UNIT	DESCRIPTION
590-70	LS	COMPLETE IRRIGATION SYSTEM

PAY ITEM NOTES:

PAY ITEM NOTES:

590-70 Irrigation System, Complete
This pay item includes the cost of furnishing and installing all pipe, pipe fittings, glue, primer, teflon tape, pipe dope, equipment, back fill, gravel, bricks, wire and wire connectors, valves, pump, well, controller, rain sensor, sprinkler heads and fittings, valve, pedestal, electrical connections, conduits, wiring, repair of curb & gutter & concrete traffic separator, removal and replacement of existing sidewalk at all areas affected, and any other items necessary for the complete installation of a fully functional irrigation system as described in the irrigation plans, notes and details.

GENERAL NOTES:

NOTE 1: Quantities are approximate only and may vary due to field conditions contractor is responsible to verify exact quantities.

NOTE 2: The mainline, where shown on the plans, is for graphic clarity purposes only. Install only in pervious areas of median and shoulders except where sleeving is indicated. In median install adjacent to the curb but with enough setback to avoid destabilizing it. In shoulders install adjacent to hardscape but with enough setback to avoid destabilizing it. See Irrigation TSP and details.

NOTE 3: Contractor to coordinate the City of Coral Springs irrigation system installation with the City of Coral Springs. Contact Louis Goldstein (954) 345-282.

Contractor to coordinate the City of Coconut Creek system installation with the City of Coconut Creek. Contact Pam Stanton at (954) 956-1463.

WELL NOTES:

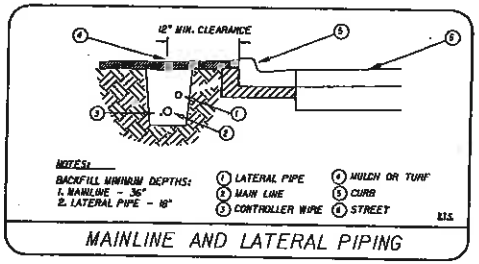
1. CONTRACTOR TO PROVIDE NEW WELL UP TO 100' DEEP, WITH DIAMETER AS SPECIFIED. PROVIDE A LINE ITEM 'PER FOOT' COST FOR EACH ADDITIONAL FOOT OF DEPTH, IF NEEDED. CONTRACTOR SHALL NOT DRILL THE WELL DEEPER THAN 100' WITHOUT RECEIVING PRIOR WRITTEN AUTHORIZATION. IF PRIOR AUTHORIZATION IS NOT OBTAINED, IN WRITING, NO ADDITIONAL MONIES WILL BE PAID.

2. AFTER THE WELL IS DRILLED, A STEP TEST MUST BE PERFORMED ON THE WELL TO VERIFY THE WELL CAN PRODUCE THE REQUIRED VOLUME OF WATER (AS SPECIFIED) ON A CONTINUAL BASIS (8 HOURS/DAY). THE RESULTS OF THIS TEST MUST BE APPROVED BY THE OWNER/OWNERS REPRESENTATIVE PRIOR TO THE INSTALLATION OF THE PUMP OR IRRIGATION SYSTEM COMPONENTS. IF THE CONTRACTOR DOES NOT FOLLOW THESE REQUIREMENTS AND THE WELL PROVES TO BE INSUFFICIENT, THE CONTRACTOR BEARS 100% OF THE RESPONSIBILITY AND COSTS TO CORRECT/MODIFY THE SYSTEM TO ACCOMODATE THE EVENTUAL WATER SOURCE.

3. AFTER DRILLING THE WELL, CHECK THE WATER QUALITY TO ENSURE IT IS SUITABLE FOR LANDSCAPE PLANTINGS. USE THE SERVICES OF A REPUTABLE, LICENSED LABORATORY ONLY. IF THE WATER IS DETERMINED SUITABLE CONTINUE IRRIGATION INSTALLATION. IF THE WATER QUALITY IS UNSUITABLE, DO NOT PROCEED WITHOUT WRITTEN DIRECTION FROM THE OWNER/OWNER'S REPRESENTATIVE.

IF A HIGH IRON CONTENT (OR OTHER STAIN PRODUCING COMPOUND) IS DETECTED, ADVISE THE OWNER/OWNER'S REPRESENTATIVE. DO NOT PROCEED WITHOUT WRITTEN PERMISSION. IF STAINING IS A CONCERN, A CHEMICAL FEED PUMP SYSTEM SHOULD BE INSTALLED BY THE PUMP SYSTEM MANUFACTURER. CONTACT HOOVER PUMPING SYSTEMS.

4. STATIC SUCTION LIFT FOR THE PUMP STATION CAN NOT EXCEED 10'. IF THIS MAXIMUM IS EXCEEDED, DO NOT PROCEED WITHOUT WRITTEN PERMISSION FROM THE OWNER/OWNER'S REPRESENTATIVE.



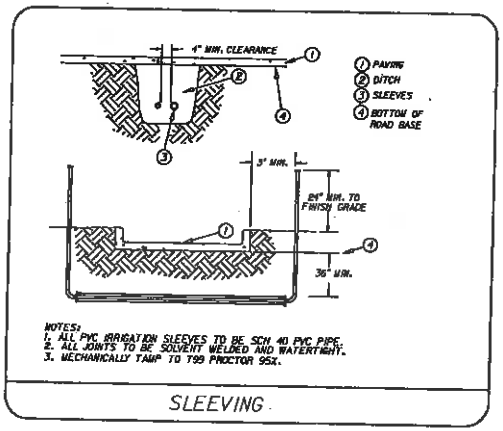
MAINLINE AND LATERAL PIPING

SUMMARY OF IRRIGATION QUANTITIES - CITY OF CORAL SPRINGS

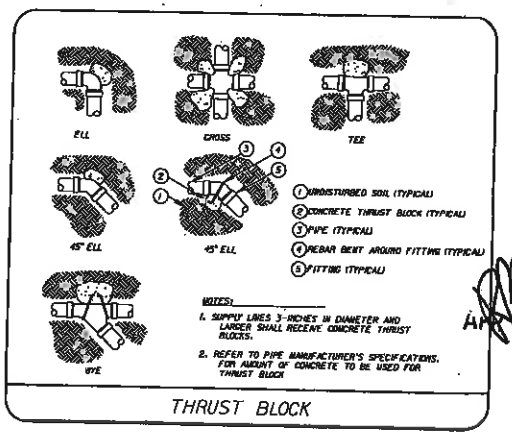
PAY ITEM NO.	SYMBOL KEY	DESCRIPTION	UNIT	QTY
590-70	1.5 | 40 / 4-A	VALVE SIZE GALLONS PER MINUTE (30 PSI CATALOG FLOW) STATION NUMBER AND POC/PUMP LETTER Examples: 1-D — STATION 1, SOURCE IS POC D 3A-F — STATION 3, VALVE A (THERE IS MORE THAN ONE VALVE ON THE STATION), SOURCE IS POC F	-	-
		PUMP STATIONS 'A' & 'B' - IRRIGATION CRAFT 7.5 HP PUMP STATIONS MODEL #HCSJA-7.5HPD-SAYCS-MC WITH RAINBIRD LXM CONTROLLER (PUMP 'A' HAS 8 STATIONS, PUMP STATION 'B' HAS 12 STATIONS), RAIN SENSORS, AND 6" GRAVEL PACKED WELLS	EA	2
		RAINBIRD PEB SERIES REMOTE CONTROL VALVE (SIZED PER PLAN) IN JUMBO RECTANGULAR VALVE BOX WITH BOLT DOWN LID	EA	16
	12F / 12F	RAINBIRD 1806 SAM-PRS SPRAY HEAD WITH MPR NOZZLE (NOZZLE AS INDICATED ON PLANS) NOZZLE RADIUS — UNLABELED HEADS ARE THE SAME NOZZLE PATTERN — RADIUS/PATTERN AS THE NEXT ADJACENT LABELED HEAD	EA	435
		SCH 40 PVC MAINLINE W/ SCH 80 SOLVENT WELD PVC FITTINGS (SIZED PER PLAN)	LF	1687
		3/4" TO 3" CLASS 200 PVC LATERAL LINE W/ SCH 40 SOLVENT WELD PVC FITTINGS	LF	5447
		4-6" SCH 40 PVC SLEEVE (WHITE) AND 2" SCH 40 PVC SLEEVE (GRAY) AT EACH LOCATION (UNLESS OTHERWISE NOTED) BY CUT AND PATCH METHOD.	LF	48

SUMMARY OF IRRIGATION QUANTITIES - CITY OF COCONUT CREEK

PAY ITEM NO.	SYMBOL KEY	DESCRIPTION	UNIT	QTY
590-70	1.5 | AA / 16	VALVE SIZE GALLONS PER MINUTE (30 PSI CATALOG FLOW) STATION NUMBER AND POC/CONTROLLER LETTER Examples: 1-D — STATION 1, SOURCE IS POC D 3A-F — STATION 3, VALVE A (THERE IS MORE THAN ONE VALVE ON THE STATION), SOURCE IS POC F	-	-
		RAINBIRD PESB-PRS-D SERIES REMOTE CONTROL VALVE (SIZED PER PLAN) IN JUMBO RECTANGULAR VALVE BOX WITH BOLT DOWN LID	EA	3
	12F / 12F	RAINBIRD 1806 SAM-PRS SPRAY HEAD WITH MPR NOZZLE (NOZZLE AS INDICATED ON PLANS) NOZZLE RADIUS — UNLABELED HEADS ARE THE SAME NOZZLE PATTERN — RADIUS/PATTERN AS THE NEXT ADJACENT LABELED HEAD	EA	83
		3" CLASS 200 GASKETED PVC MAINLINE W/ SCH 40 GASKETED PVC FITTINGS	LF	880
		3/4" TO 3" CLASS 200 PVC LATERAL LINE W/ SCH 40 SOLVENT WELD PVC FITTINGS	LF	1097
		4-6" SCH 40 PVC SLEEVE (WHITE) AND 2" SCH 40 PVC SLEEVE (GRAY) AT EACH LOCATION (UNLESS OTHERWISE NOTED) BY CUT AND PATCH METHOD.	LF	660



SLEEVING



THRUST BLOCK

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6591
ROBERT BENTZ LA#6666937
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

TABULATION OF QUANTITIES & IRRIGATION DETAILS

SHEET NO. LD-47

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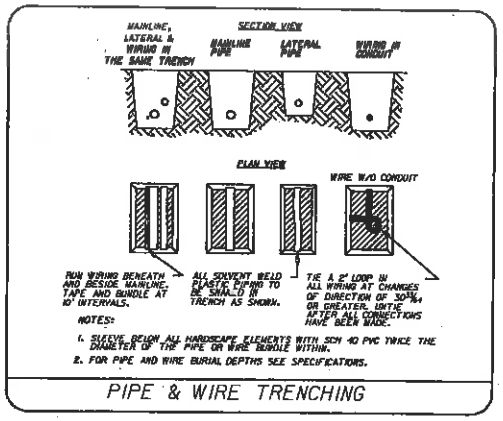
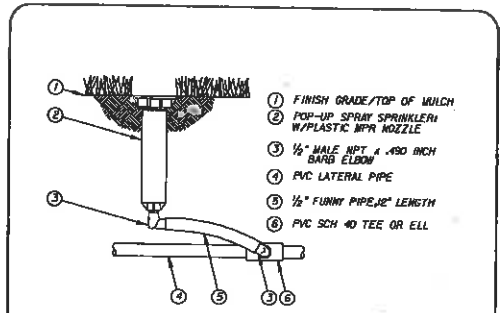
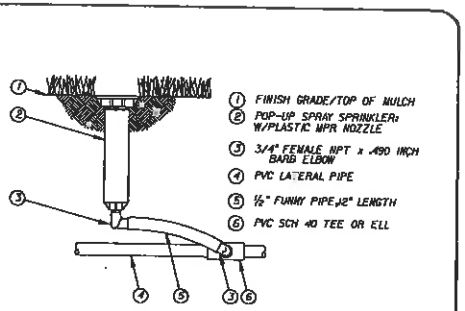


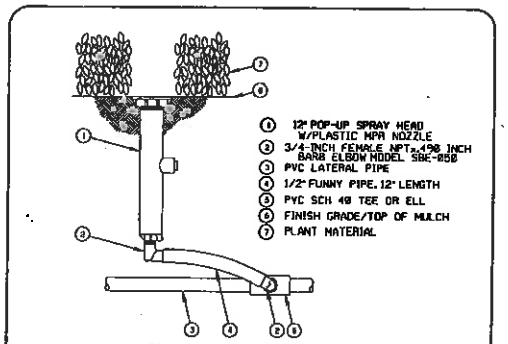
PIPE & WIRE TRENCHING



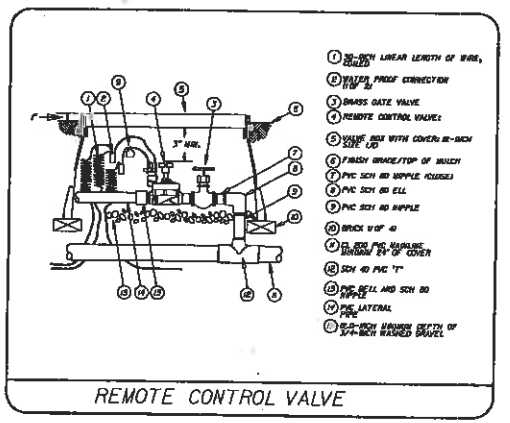
6" POP-UP SPRAY HEAD-COCONUT CREEK



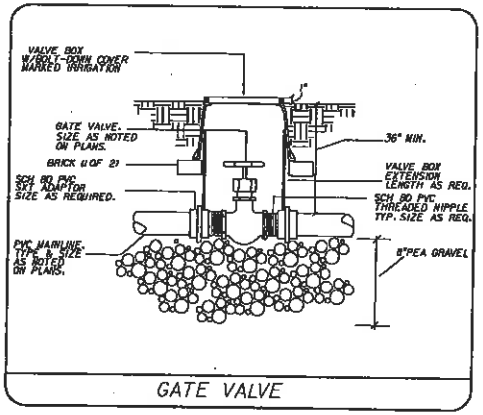
6" POP-UP SPRAY HEAD- CORAL SPRINGS



12" POP-UP SPRAY HEAD- CORAL SPRINGS



REMOTE CONTROL VALVE



GATE VALVE

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2191 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8511
ROBERT BENTZ LA#6667917
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION DETAILS

SHEET NO. LD-48

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Irrigation Pump Station Specification

SRT Coral Springs • Stations A & B

Broward County, Florida

Tuesday, April 14, 2009

I. Manufacturer and Model
The pump stations for this project shall be manufactured by Irrigation Craft (Ft. Lauderdale, Florida 954-771-9353), model numbers ICSCW-7.5VPD-SRTCSA-MC & ICSCW-7.5VPD-SRTCSB-MC. The pump stations shall be Listed under two Underwriters Laboratories sections as follows:
A. UL 29/64 508A - Enclosed Industrial Control Panel • File Number E208950.
B. UL 29/64 QCZJ - Packaged Pumping System • File Number EM3693.

II. General Description
This document describes a skid mounted pumping system including pumps, electrical controls, pipe manifolds, valves, and accessories. The pump station shall be manufactured in a workman like manner with due consideration given to safe operation, convenience of use, maintenance, and future repairs. All intended features shall work properly and reliably. All materials exposed to the weather shall be corrosion resistant and shall not be harmed by spraying water. All components mountings shall be sturdy and solid with sufficient clearance to safely access, operate, and repair without significant disassembly of other components. The station shall be manufactured, tested, then shipped to the site.

III. Components

A. Electrical and Controls

1. ELECTRICAL REQUIREMENTS: The pump station shall be designed to accept Single Phase site power, convert to Three Phase Via the Variable Frequency Drive and utilize Three Phase Submersible Motors. The full load presented to the electrical service shall not exceed 27 amperes @ 230 volt.
2. ELECTRICAL ENCLOSURE: The electrical control enclosure shall be Fiberglass, NEMA 4X, with stainless steel hardware, all penetrations made in the panel maintain the NEMA 4X rating.
3. FUSELESS: All circuit protection shall consist of properly sized circuit breakers. There shall be no fuses in the pump station.
4. DISCONNECT SHORT CIRCUIT/GROUND FAULT PROTECTION: The control enclosure shall incorporate a door interlock disconnect preventing the enclosure door from being opened unless the power is first turned off. This disconnect shall be a molded case circuit breaker with a minimum AIR rating of 18,000 amps @ 480 volts AC. If a major short circuit or ground fault occurs in the pump station this disconnect shall open all three power feed circuits to the pump station. After the fault is cleared, the circuit breaker will be reset by first moving the door handle to the OFF position, then back to the ON position. Fuses shall not be used.
5. VARIABLE FREQUENCY DRIVE (VFD) and Phase Conversion: A 15 Horsepower VFD shall be installed and utilized to convert Single Phase 230 volt site power for use with 7.5 Horsepower 3 phase motors. The pump shall be controlled via the Variable Frequency Drive and shall operate at variable speeds supplying system flow and pressure demands. The pump shall start in response to a pressure drop in the irrigation mainline (Pressure Demand). The VFD enclosure and environment shall be maintained as recommended by the manufacturer.
6. PRESSURE DEMAND: The pumps shall be started and retired as required to match the system requirements.
7. OVERLOAD: The pump motor shall be protected against overload by the VFD.
8. SHORT CIRCUIT: The pump motor is protected against SHORT CIRCUIT by a molded case circuit breaker.
9. FLOW SAFETIES: The VFD shall protect the pump against Over/Under Voltage, Motor Over-Current, Short Circuit, Ground Fault, Motor Overheat and No or Low Flow conditions.
10. HAND / OFF / AUTO (HOA) SWITCH PER PUMP: This switch provides HAND, OFF, and AUTO functions as follows:
HAND: HAND position shall manually start the pump.
OFF: OFF position shall prevent the pump from operating.
AUTO: AUTO position shall place the pump in automatic start mode, the pump shall start automatically as required.
11. LOW VOLTAGE CONTROLS, LED LAMPS: All flow and pressure sensors inside and outside the control panel, all pilot lights, and all door mounted hardware shall be powered with less than 30 volts. All pilot lamps shall be mounted on the control panel door exterior and shall use LED lamps rated for 100,000 hours of continuous operation. Incandescent lamps shall not be used.
12. LINE REACTOR: The VFD shall be protected by a properly sized line reactor as recommended by the manufacturer.
13. PRESSURE TRANSDUCER: A 300psi / 1/-4ph, stainless steel, 57/64 npsl connection pressure transducer shall be provided. The transducer shall have an operating temperature range of 13° to 185° F. The transducer shall operate on 7vdc to 35vdc supply voltage and provide a 4ma to 20ma output with an accuracy of .5% of full scale.
14. VOLUTE HEAT SENSOR: The heat sensor body is made of one piece brass, incorporates a bimetal non-adjustable thermostat set at 1000 F, with 5% accuracy, inserted directly into the pump volute and interfaced with the VFD.

B. Aluminum Skid and Enclosure
Pump station equipment shall be securely mounted on a welded aluminum skid, and enclosed with .59/64 • Thick, Black, Starlight XL, with Grain Finish. Hinged Doors shall provide convenient access to equipment. All doors shall be locked with built in aluminum lock mechanisms. All mounting hardware shall be stainless steel and aluminum with vandal resistant fasteners. The station shall be vented with a squirrel cage fan when the pump is operating.

C. Pump and Motor
The pump shall be a Concentric Flow Diffused Turbine, Cast Iron Bowls, Bronze Impellers, as provided by Irrigation Craft, with the following performance points (no TDH or manifold loss deductions): Open @ 200 Feet of Head, 25gpm @ 188 Feet of Head, 50gpm @ 173 Feet of Head, and 75gpm @ 148 Feet of Head. The pump will be driven by a Three Phase 7.5 horsepower water cooled motor. The pump shall not use the motor service factor at any point on the pump curve.

D. Irrigation Controller(s)
The irrigation controller(s) shall be Rain Bird ESP-LXM Modular. Station A shall be fitted with an 8 zone controller, Station B shall be fitted with a 12 zone controller. The controller(s) shall be mounted on a welded, angled support for ease of use. The controller shall be hardwired to the field with #14 stranded wires, numbered and color coded, contained in a UL® listed, UF direct burial jacket. This direct burial cable shall continue just outside the station into a splice box. Field wiring connections shall be made utilizing approved waterproof connections inside this splice box. The rain sensor shall be a Hunter Mini-Clik mounted at eight feet on a galvanized pole and securely fastened to the pump station enclosure(s).

E. Optional Flow Meter
The optional flow meter shall be a Sea Metrics model TXIOIB Insertion Turbine operated by Sealetrics model FT420 Flow Computer. The meter shall digitally indicate flow rate, total flow via LCD (liquid crystal display) and shall provide flow information to the pump controller.

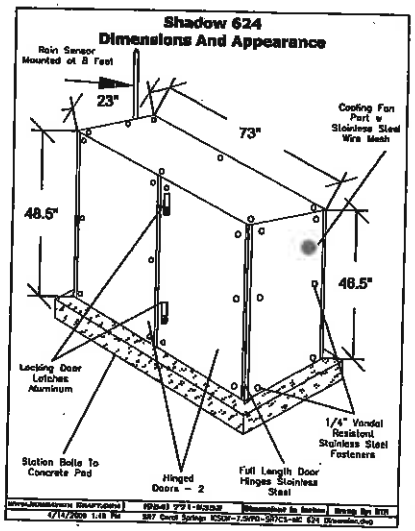
F. Pipe Manifolds
All pipe manifolds shall be constructed of Schedule 40 hot dip galvanized steel, with roll grooved and mechanical fittings. Mechanical joints shall be rigid end include EDPM gaskets specifically designed for vacuum service. The station isolation valve shall be a mechanical butterfly valve.

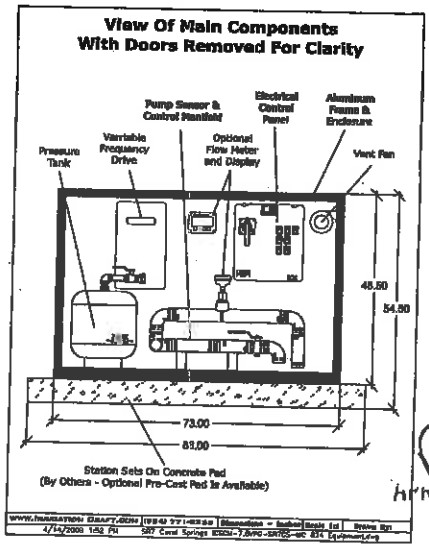
G. Pressure Tank
NSF Approved, ASME 29/64 Code Vessel, 150psi Rating, Captive Air Type, 14-Gallon Capacity, Vinyl Lined.

H. Delivery, Concrete Pad, and Installation
The station manufacturer shall deliver the pump control station with and bolted to a pre-cast concrete pad. The manufacturer shall supply the submersible pump/motor assembled and spliced to 80 feet of jacketed submersible cable, a 6" x 3" fabricated well seal and roll groove galvanized piping to below grade. The station manufacturer shall set the submersible pump/motor in the well of up to 80 feet using 3" Certa-Lok piping and connect the submersible pump discharge from the well to the pump control module input. All exposed piping shall be Roll Groove, Schedule 40 galvanized to below grade. The irrigation contractor shall connect the pump control module discharge to the irrigation mainline. The well driller shall provide a 6" well. The well shall be sand free and properly developed to continuously provide 125% of the specified flow rate with a maximum dynamic drawdown of 30 feet below grade. The site electrician shall install electrical service to the pump control module and from the pump control module to the submersible pump/motor.

I. Start-Up, Site Training, and Operation Manual
Irrigation Craft shall return to the project when the station is completely installed to start and calibrate the pump station. At the owner's request Irrigation Craft shall also return to the site one time to provide on site training to the owners representative. Irrigation Craft shall provide an operating manual specifically written for the station and will provide on site training for the maintenance personnel. The operation manual shall have the name of the project, the manufacturer's serial number, and the date of delivery on the front cover of the manual.

J. Warranties
Irrigation Craft warrantees all products to be free of defects for a period of thirteen (13) months from the date of shipment leaving Irrigation Craft facilities. This warrantee covers both labor and materials to replace or correct defective materials except those defects caused by failure to maintain the equipment, vandalism, abuse, and natural disasters including, but not limited to: lightning, high winds, flooding, and hurricane. This warrantee applies to the original purchaser and to the final owner of the equipment. This warrantee excludes all consequential damages arising from use of Irrigation Craft products or services. No other warrantees apply, express or implied.





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REVISIONS			
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LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000205
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6591
ROBERT BENTZ LA REG # 667

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PUMP STATIONS
NOTES AND DETAILS

SHEET NO.
LD-49

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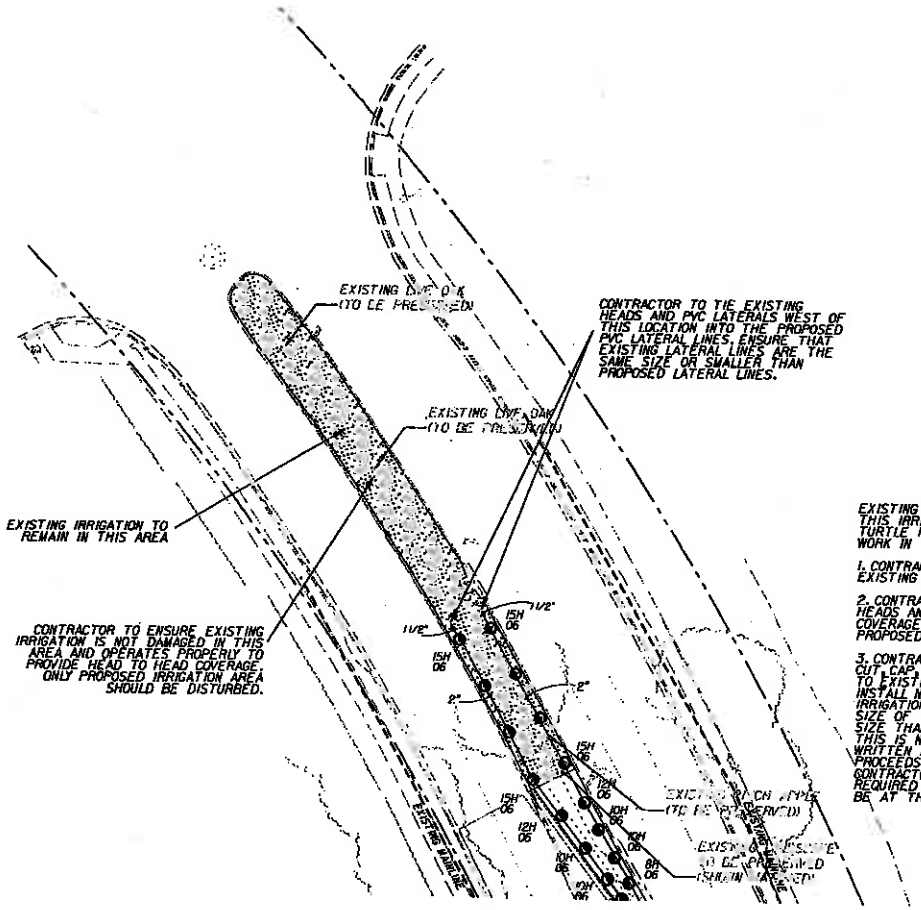

EXISTING IRRIGATION REQUIREMENTS:
THIS IRRIGATION IS PART OF AN IRRIGATION SYSTEM OWNED BY TURTLE RUN. COORDINATE WITH THE OWNER FOR THE IRRIGATION WORK IN THIS MEDIAN.

1. CONTRACTOR TO CUT AND CAP ONLY THOSE PORTIONS OF THE EXISTING IRRIGATION NO LONGER NEEDED DUE TO NEW IRRIGATION.

2. CONTRACTOR TO ADD, ADJUST, MOVE, CHANGE, ETC. SPRINKLER HEADS AND NOZZLES AS REQUIRED TO ENSURE 100% HEAD TO HEAD COVERAGE WITH A D.U. OF .7 OR GREATER IN AREAS WHERE PROPOSED AND EXISTING IRRIGATION MEET.

3. CONTRACTOR TO FIELD LOCATE EXISTING IRRIGATION AS REQUIRED. CUT, CAP, AND MARK PRIOR TO SITE DEMOLITION TO PREVENT DAMAGE TO EXISTING IRRIGATION. ONCE NEW HARDSCAPES ARE COMPLETED, INSTALL NEW IRRIGATION AND CONNECT MAINLINES FROM NEW IRRIGATION TO THE EXISTING IRRIGATION LINES, AS INDICATED. THE SIZE OF THE PROPOSED MAINLINE MUST BE EQUAL TO OR LARGER IN SIZE THAN THE EXISTING MAINLINE IT IS TO BE CONNECTED TO. IF THIS IS NOT WHAT IS FOUND, DO NOT PROCEED WITHOUT RECEIVING WRITTEN AUTHORIZATION TO PROCEED. IF THE CONTRACTOR PROCEEDS WITHOUT PRIOR WRITTEN AUTHORIZATION, IT IS AT THE CONTRACTORS RISK. ANY AND ALL COSTS INCURRED, THAT ARE REQUIRED TO PROVIDE A FULLY FUNCTIONAL IRRIGATION SYSTEM, WILL BE AT THE CONTRACTORS EXPENSE.

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APR 17 2009

CORAL SPRINGS JURISDICTION

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

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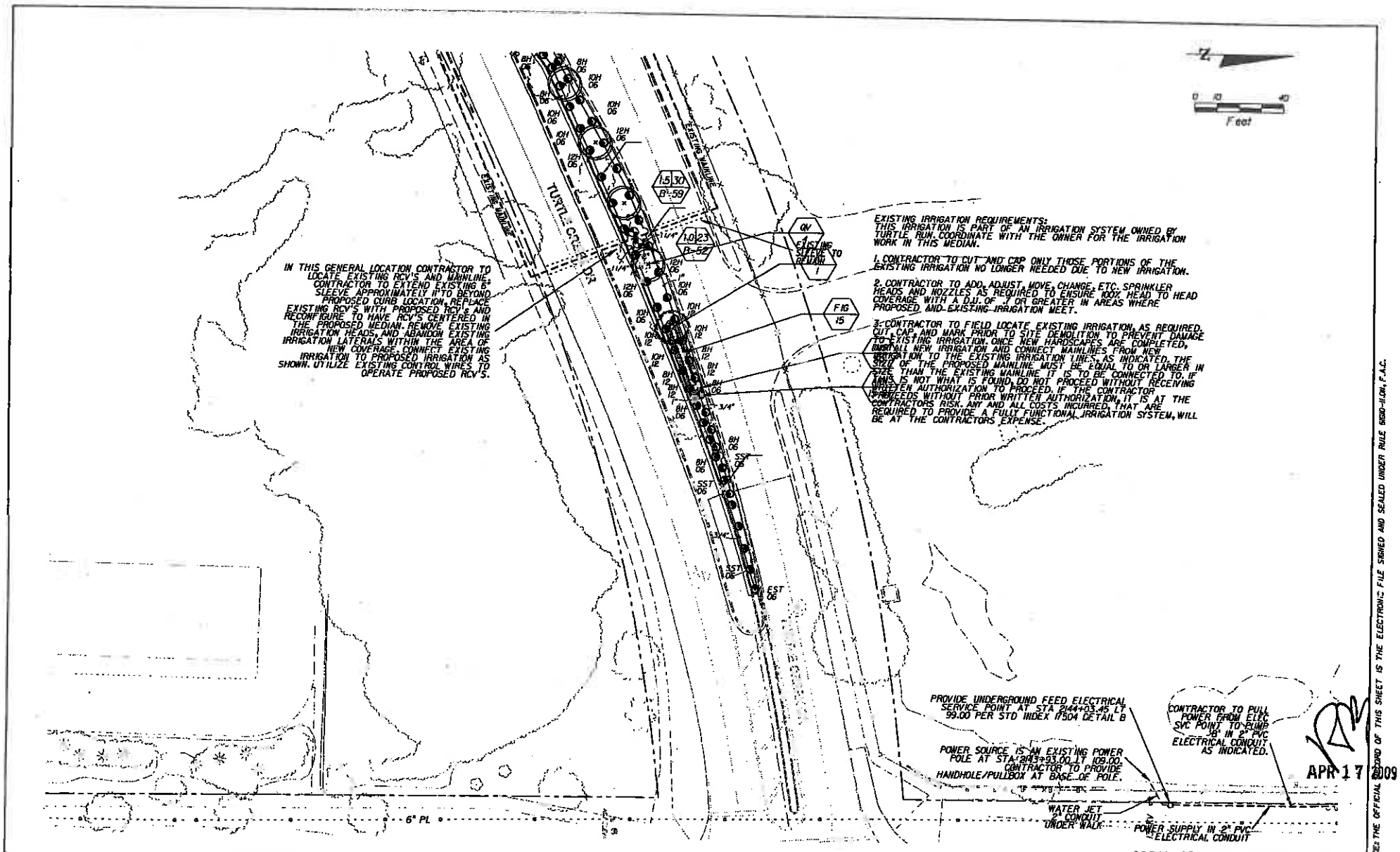

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2181 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6101
ROBERT BENTZ LARES # 667
CERTIFICATE OF AUTHORIZATION NO: 000205

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-51

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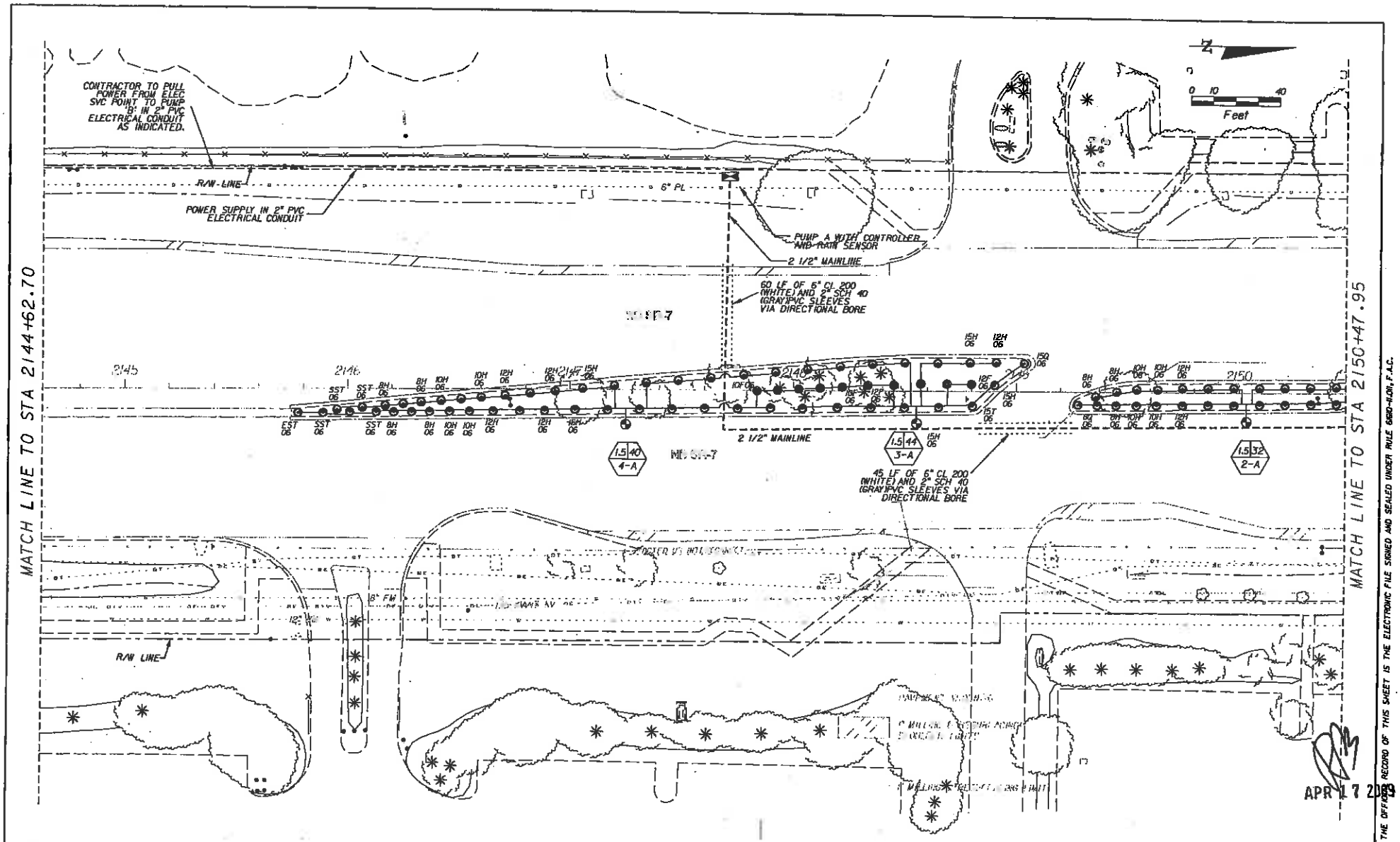

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LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000206
2181 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BERTZ LA REG #667

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-52

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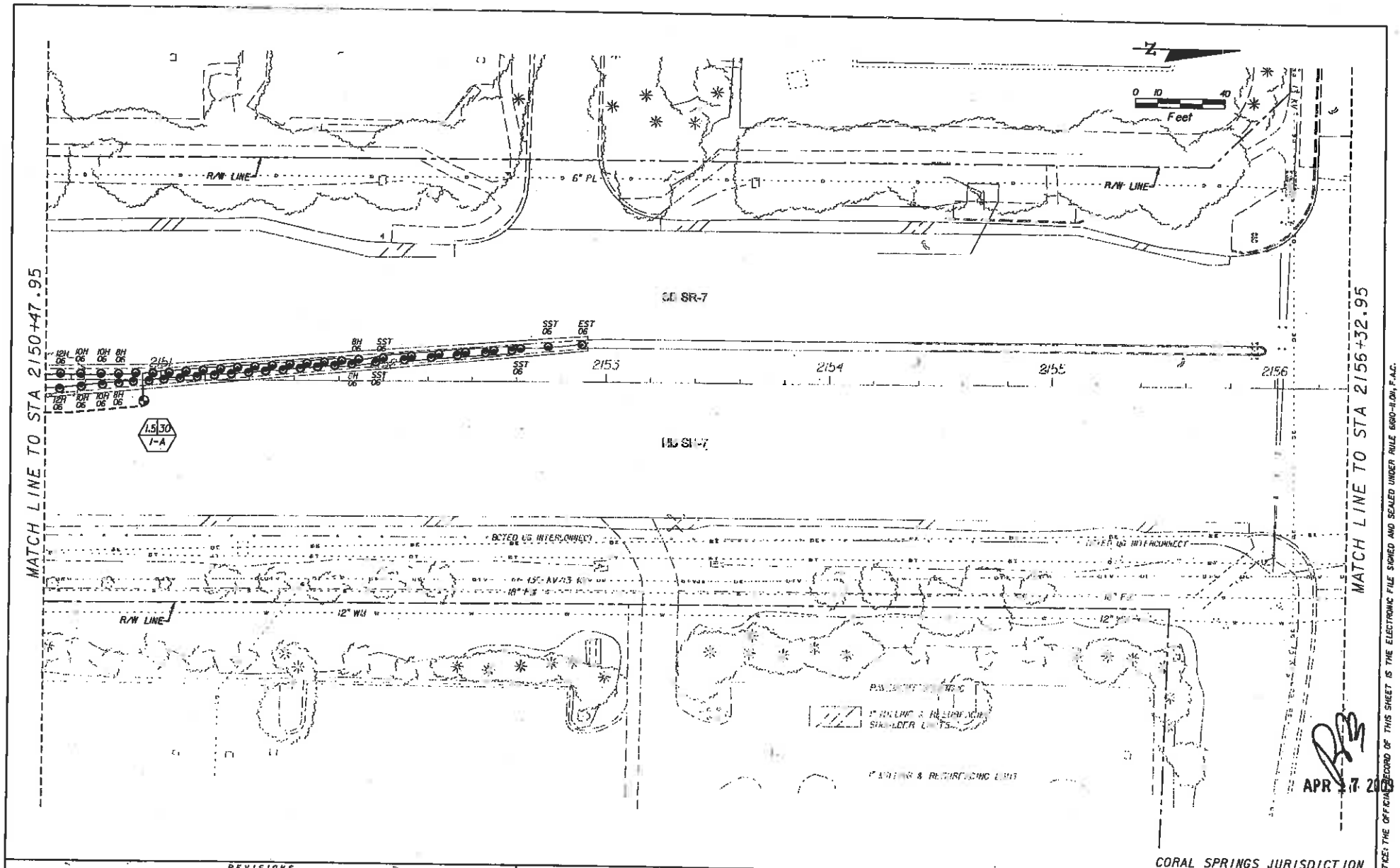

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000206
2191 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6591
ROBERT BENTZ LA REG # 667

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

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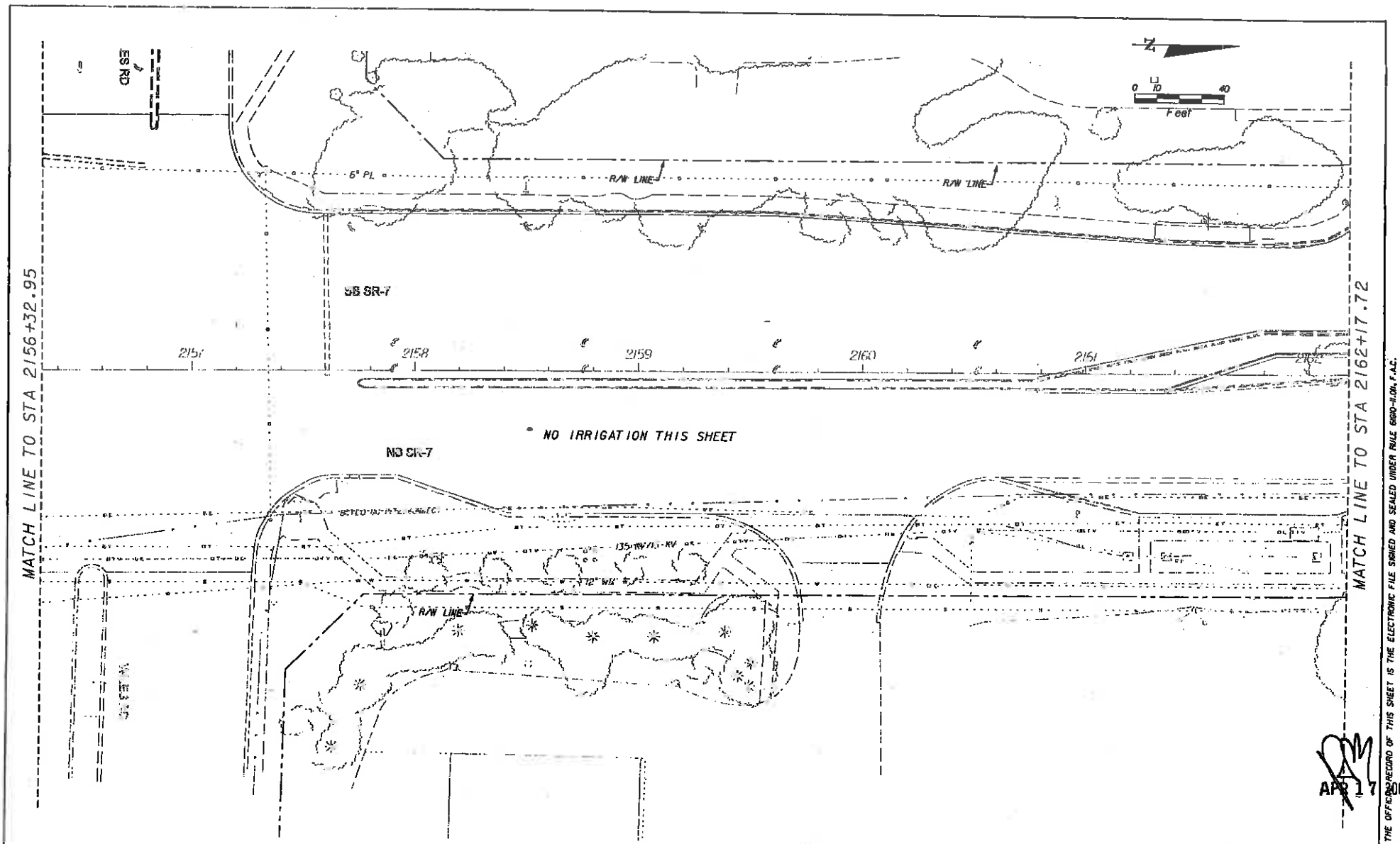

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DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561)-478-6601
ROBERT BENTZ LARCH #667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-54

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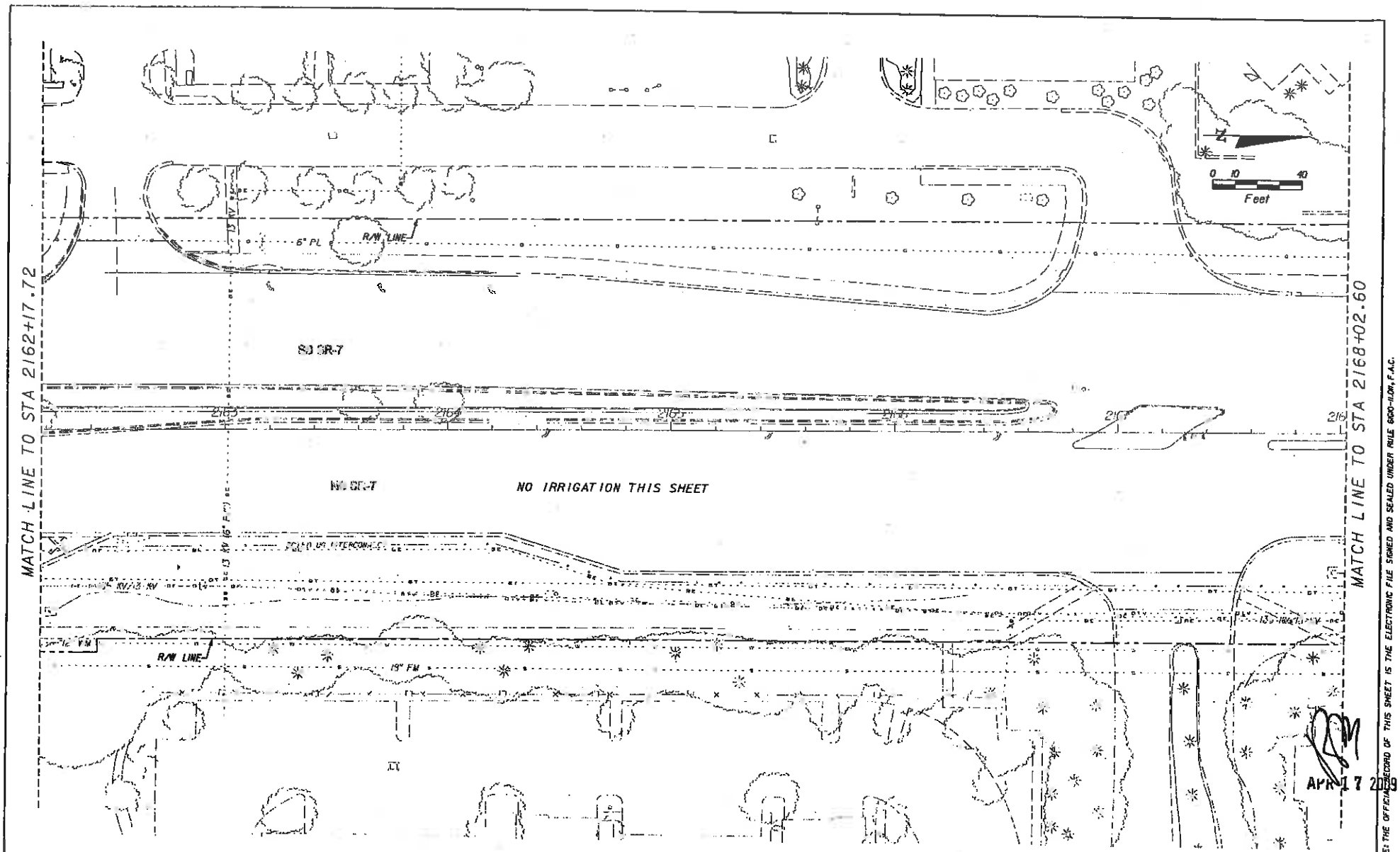

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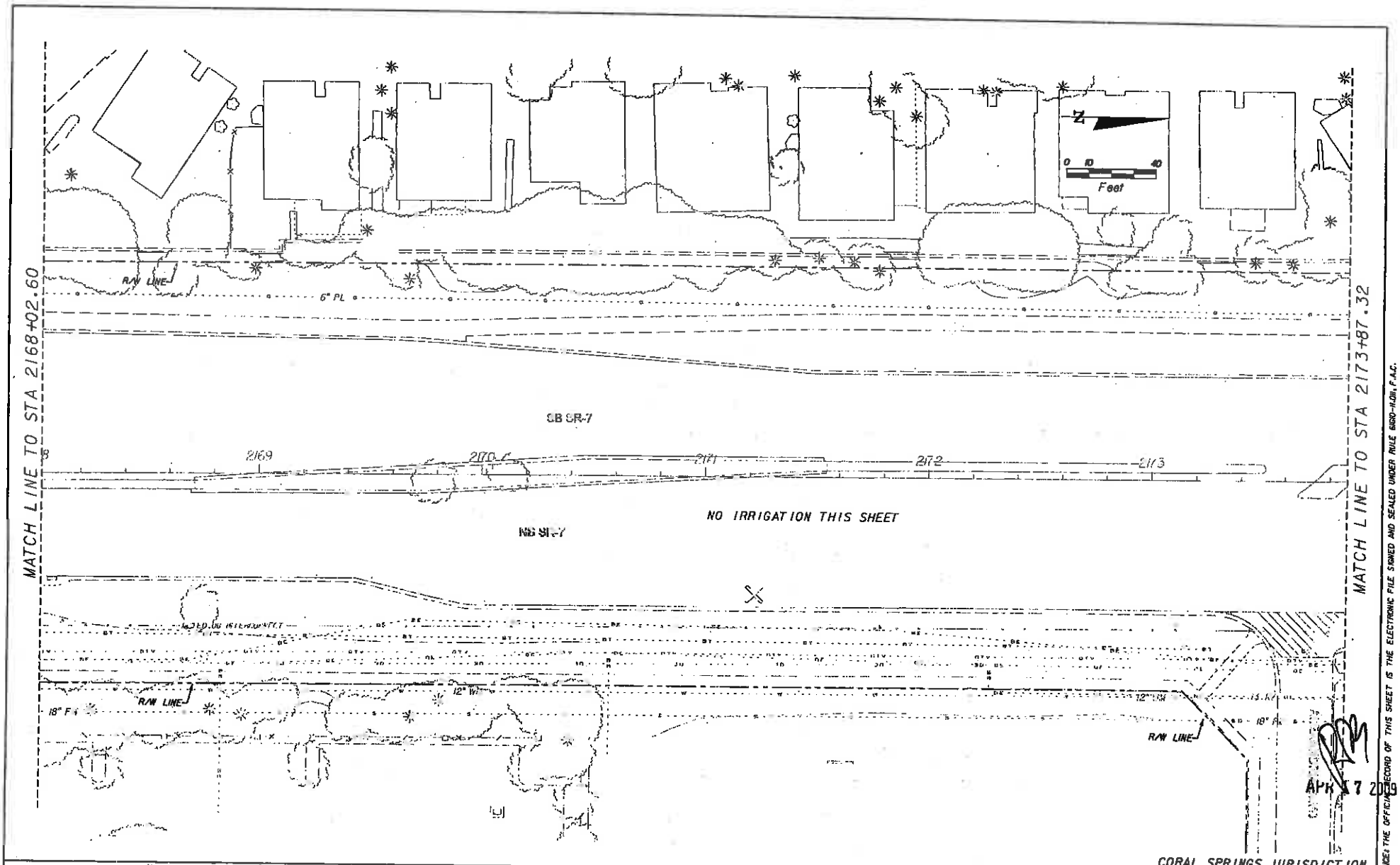
LAND DESIGN SOUTH
2121 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL. 33409 (561) 478-8501
ROBERT BENTZ LA#6668 687
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-55



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000206

2101 CENTREPARK WEST DR.
SUITE 160
WEST PALM BEACH FL
33409
(561) 478-6591
ROBERT BENTZ LA REG #667

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO.
LD-56

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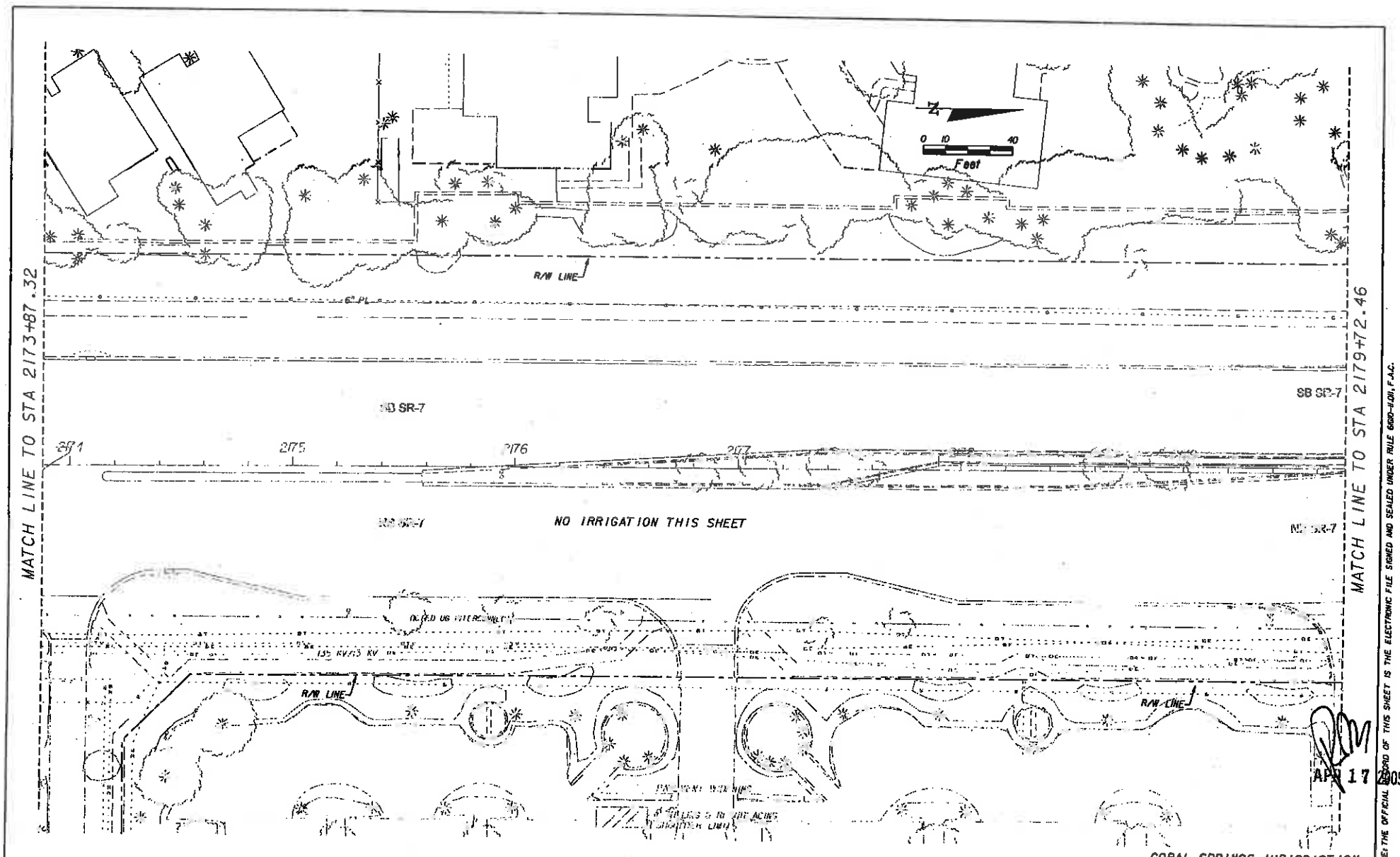

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DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000206
2100 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8601
ROBERT BERTZ LA #6666667

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-57

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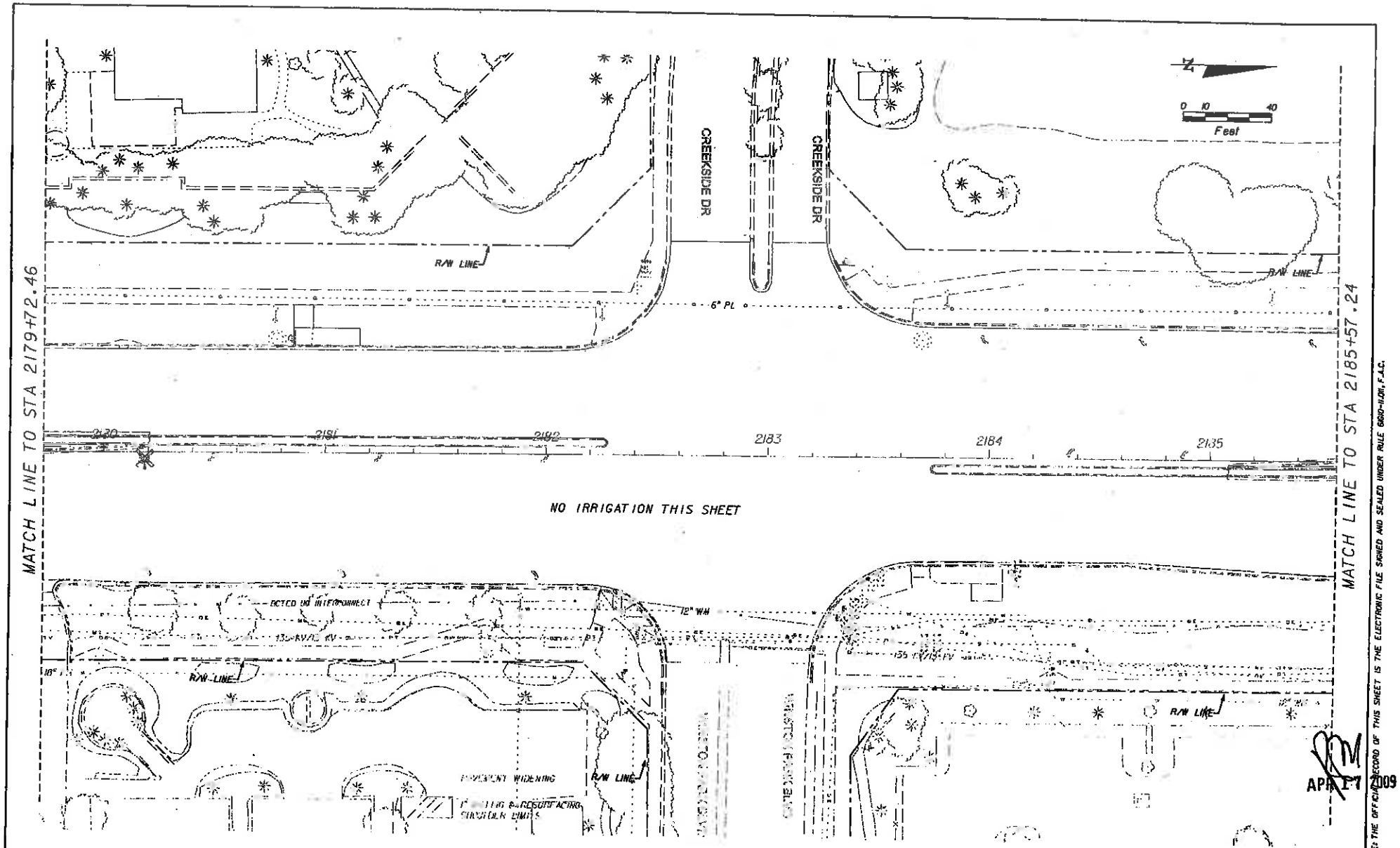

APR 17 2009

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.001, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000205
2101 CENTERPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561)478-1301
ROBERT BENTZ LA#6916697

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-58

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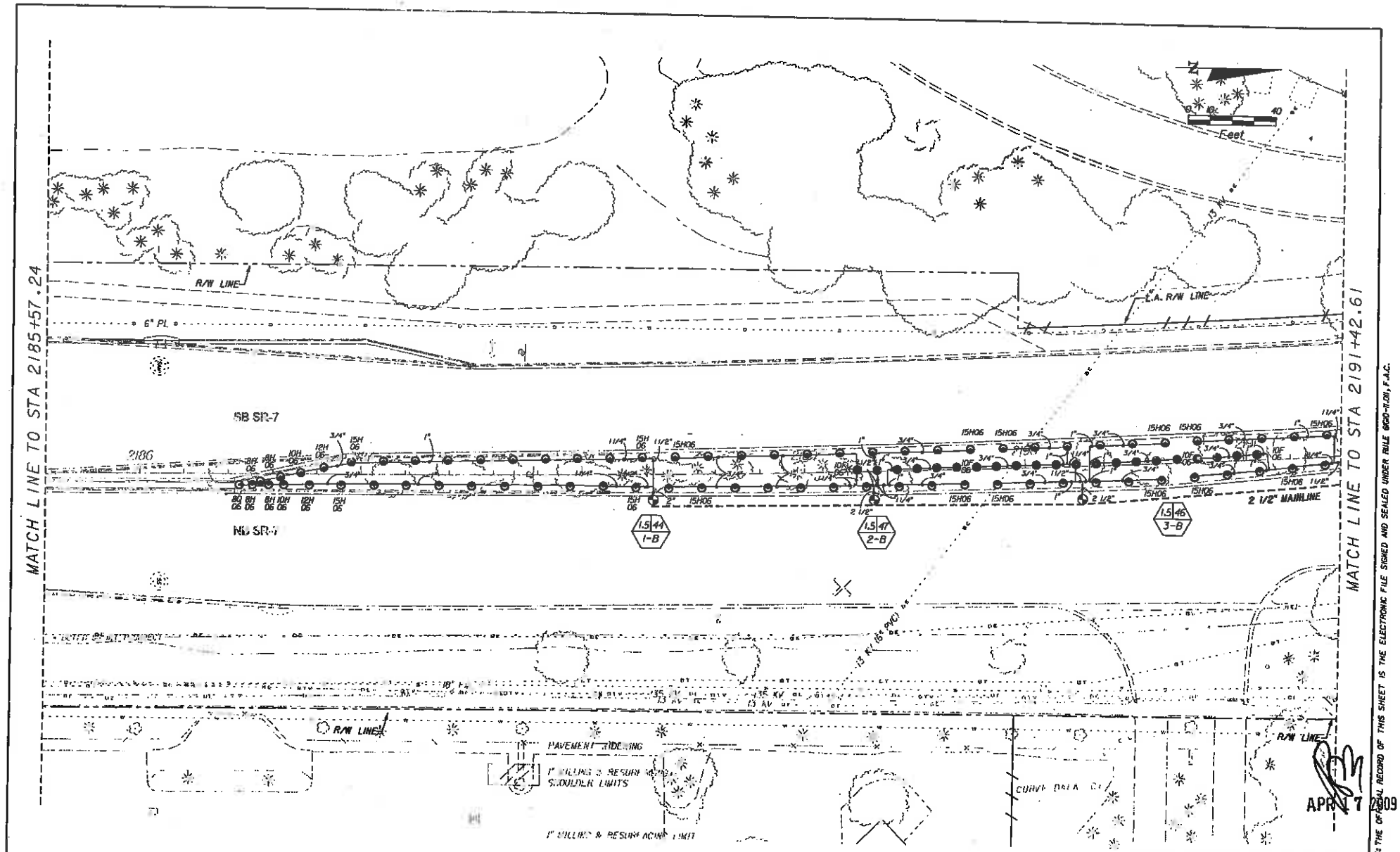

APR 17 2009

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 101 WEST PALM BEACH FL 33409 (561) 478-6004
ROBERT BENTZ LA REG # 6197
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-59

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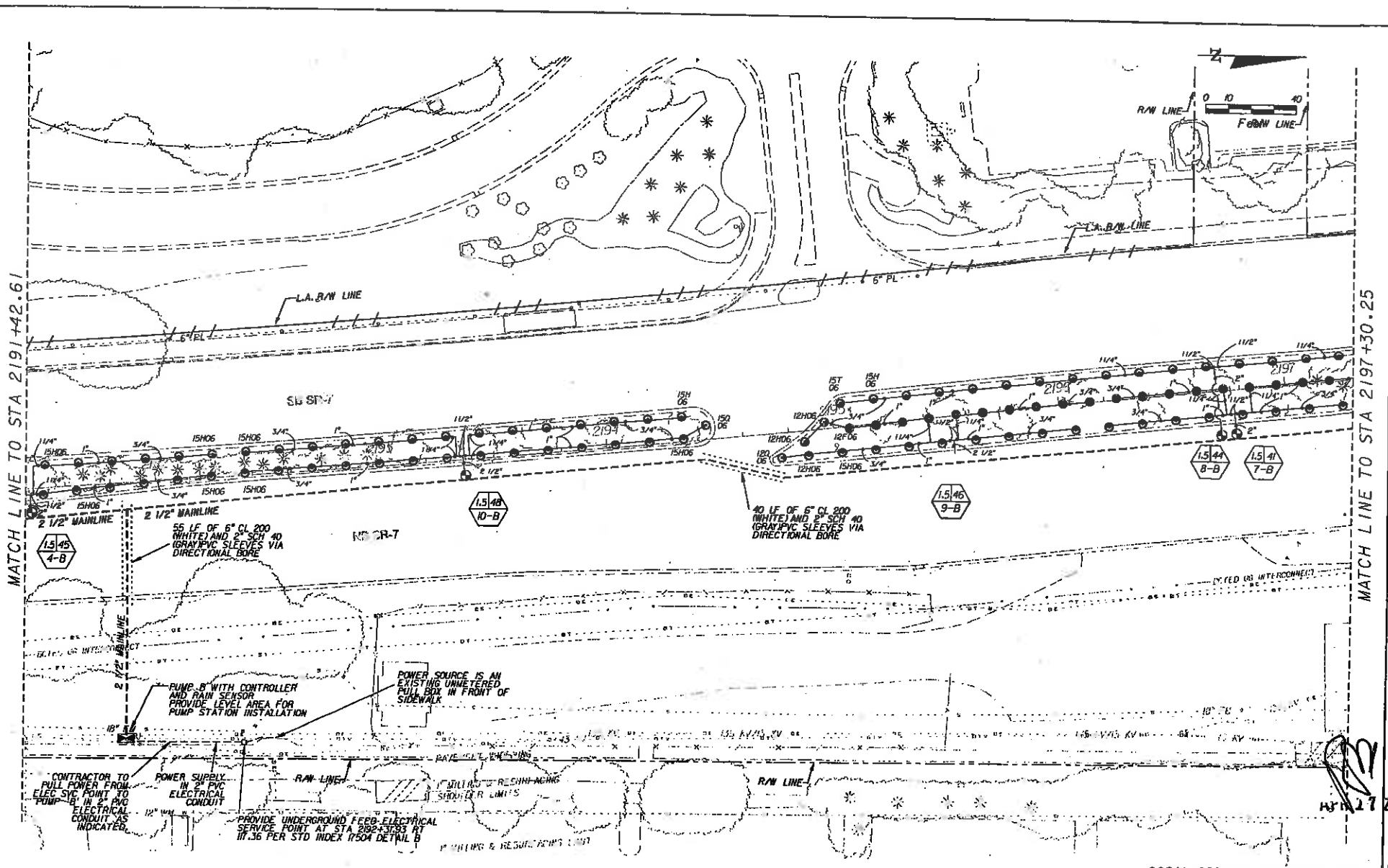

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 110 WEST PALM BEACH FL 33409 (561) 478-6601
ROBERT BENTZ LARES #667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-60

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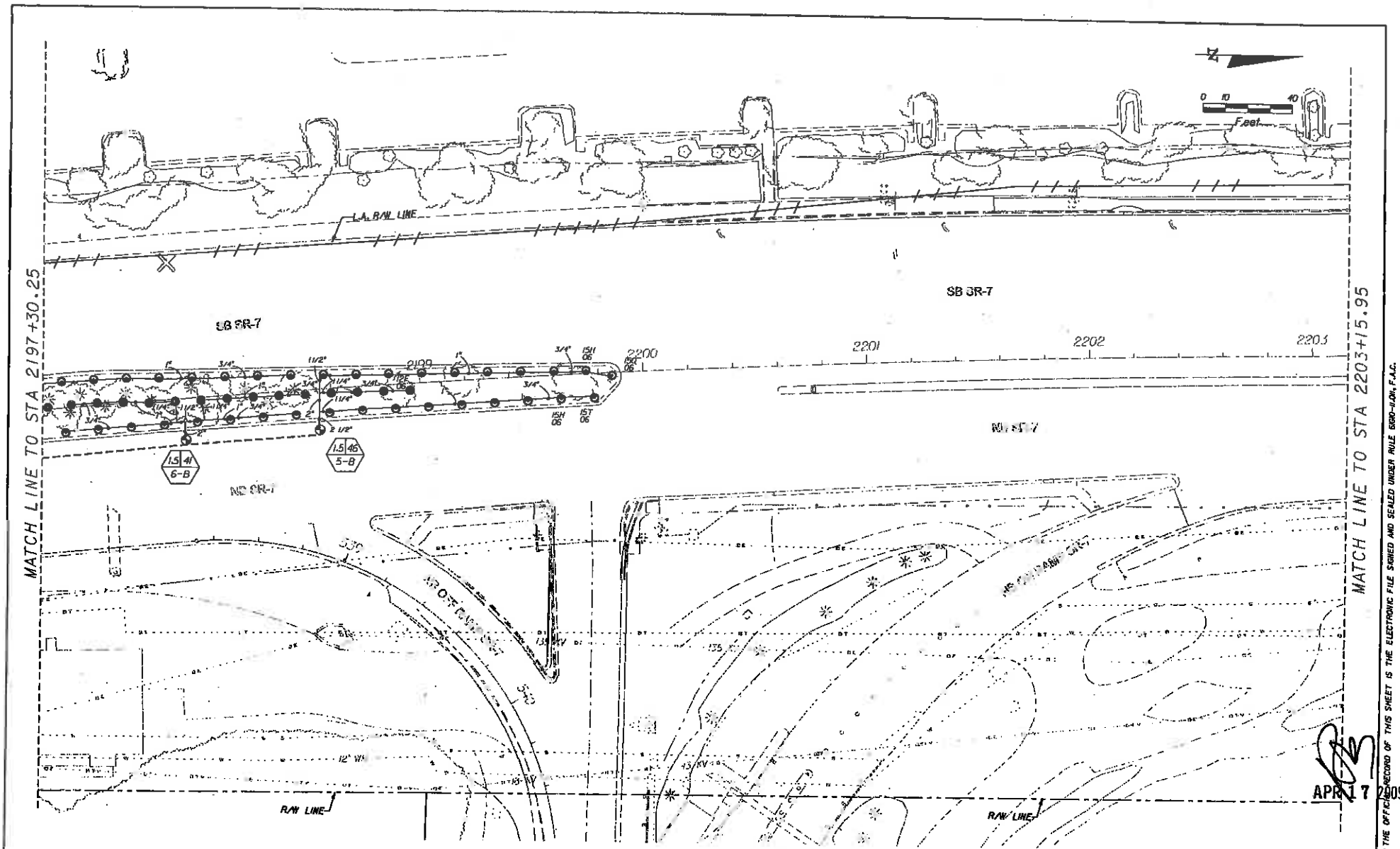

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000806
2401 CENTREPARK WEST DR, SUITE 100
WEST PALM BEACH FL 33409
(561) 478-8501
ROBERT MERTZ LA REG # 667

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-61

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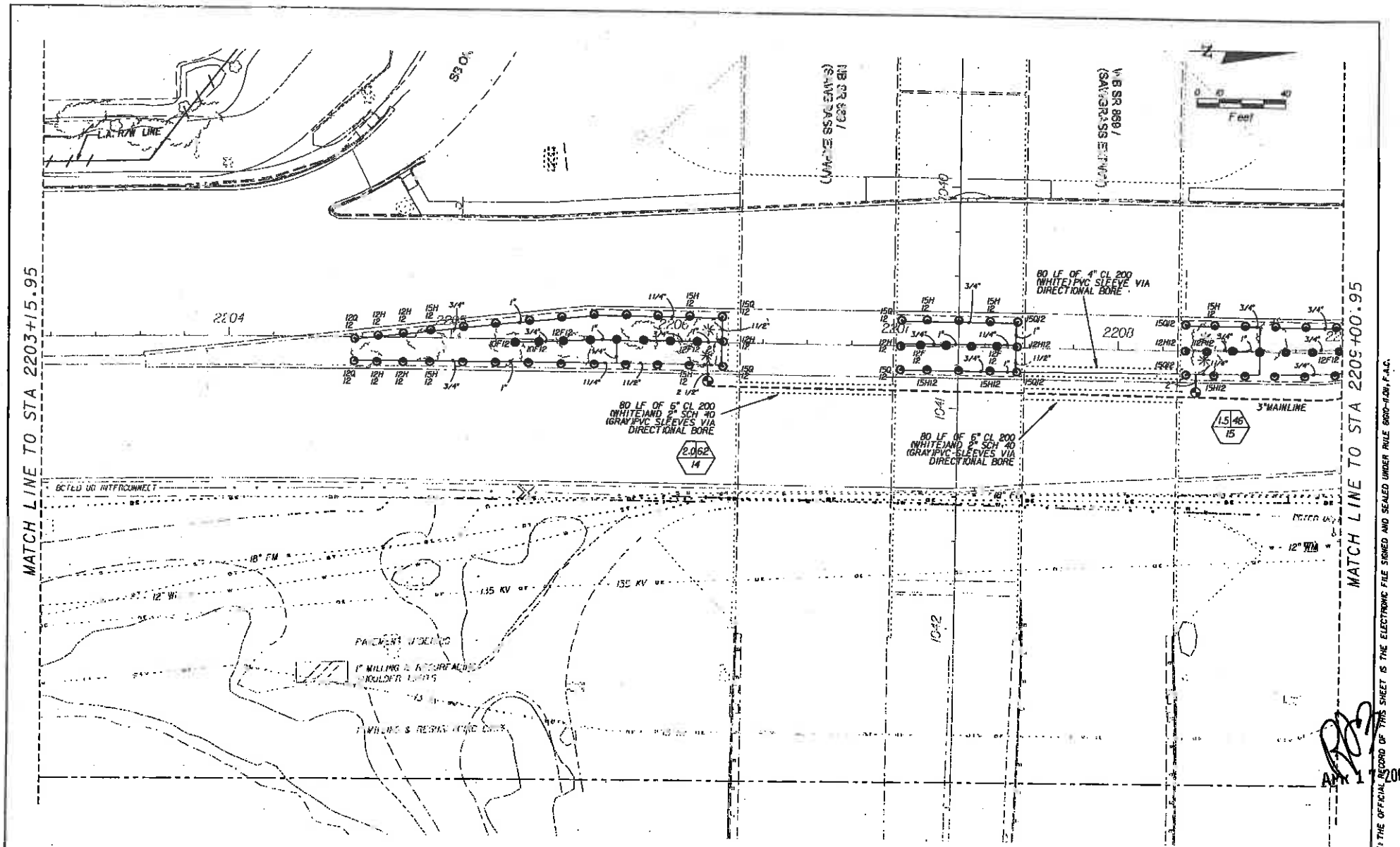

COCONUT CREEK JURISDICTION

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APR 17 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 150 WEST PALM BEACH FL 33409 (561) 478-6501
ROBERT BENTZ LA 6666 #667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-62

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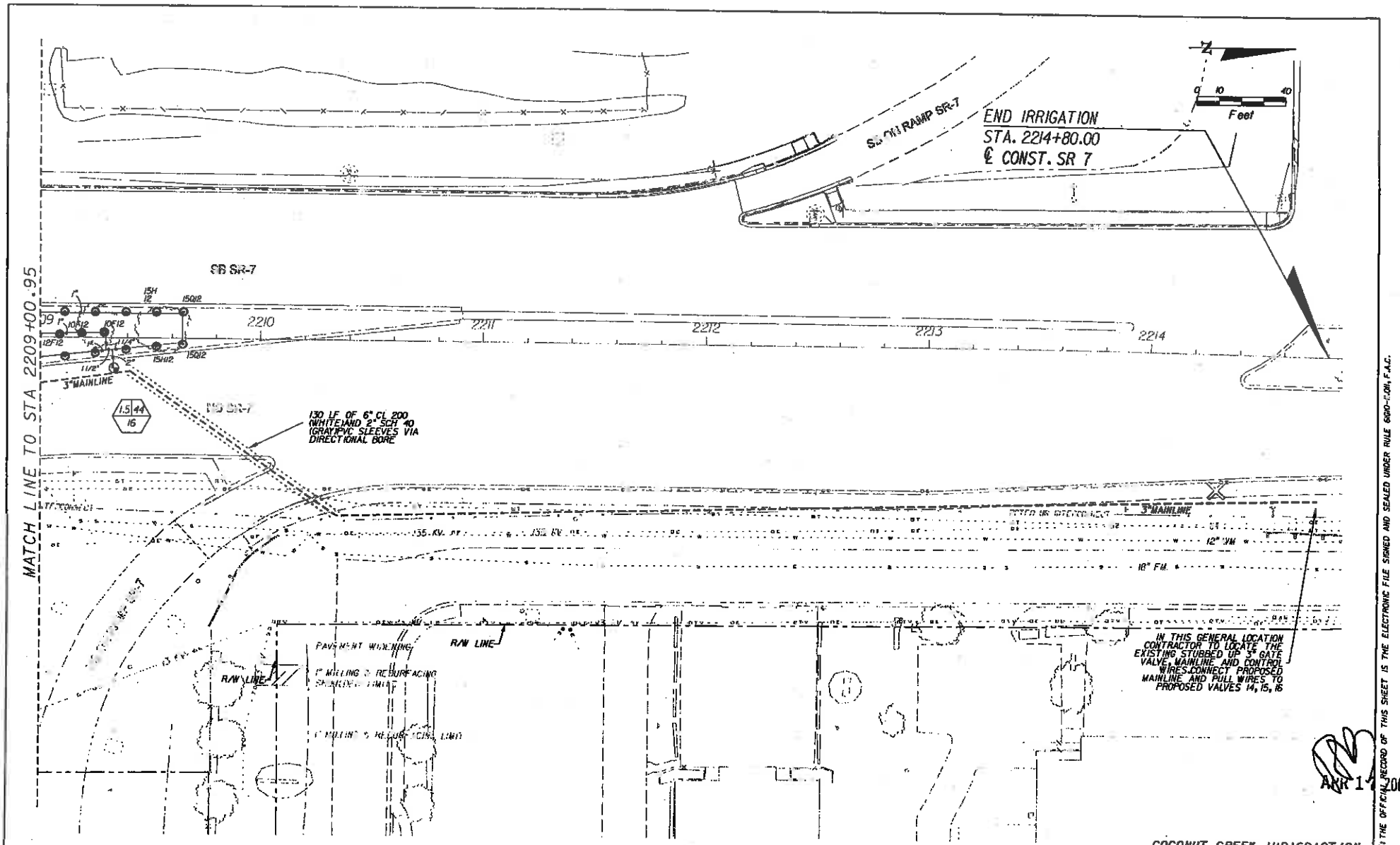

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APR 14 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 150 WEST PALM BEACH FL. 33409 (561) 478-6601
ROBERT BENTZ LA REG #1997
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-63

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SECTION NO: 86100
S.R. NO(S): 7 (US 441)
COUNTY: Broward
FM NO.(S): 421662-1-52-01

EXHIBIT C

MAINTENANCE PLAN

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

Dated: 4-17-2009

MAINTENANCE PLAN
Landscape Improvements

Project State Road No(s):	**SR 7 (US 441)**
Project Limits:	**SR 832 (Sample Rd.) to North of SR 869 (Sawgrass Expressway)**
FM No(s):	**421662-1-52-01**
Maintaining Agency:	**Coconut Creek**
RLA of Record:	**Robert Bentz**
Date:	**4-17-2009**

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

II. Specific Project Site Maintenance Requirements and Recommendations:
The design intent for the Coconut Creek portion of the design was to match the project to the north. There is a portion of the irrigation system that is tied into the project to the north and utilizes their water supply. There should be careful measures taken so that this system doesn't impact the system in place to the north. The hardscape design was also created to match the

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: 86100
S.R. NO(S): 7 (US 441)
COUNTY: Broward
FM NO.(S): 421662-1-52-01

EXHIBIT D

PROJECT COST

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

Dated: 4/17/2009

I. APPROXIMATE PROJECT COST: $ 88,019.50

SR 7 from Sample to Sawgrass-FPID 421662-1-52-01-Coconut Creek Jurisdiction					
Cost Estimate for Landscape Pay Items					
	Symbol	Quantity	Unit Cost	Total Cost	Specification
Trees and Palms					
Roystonea elata-Royal Palm	RO	8	$750.00	$6,000.00	B&B, 10' GW
Trees and Palms Landscape Material Total-				$6,000.00	
	Symbol	Quantity	Unit Cost	Total Cost	Specification
Shrubs					
Bougainvillea 'Sanderiana'	BSS	300	$9.00	$2,700.00	24" x 24", 24" oc.
Jasminum volublie-Wax Jasmine	JAS	300	$9.00	$2,700.00	12" x 12", 18" oc.
Trachelospermum asiaticum-Dwarf Conferdate Jasmine	TRA	1000	$4.00	$4,000.00	12" x 12", 18" oc.
Zamia maritima-Cardboard Palm	ZAM	250	$25.00	$6,250.00	24" x 24", 36" oc.
Shrubs Landscape Material Total-				$15,650.00	
	Symbol	Quantity	Unit Cost	Total Cost	Specification
Groundcovers					
Performance Sod	SOD	145	$0.09	$13.05	St. Augustine Grass
Shrubs Landscape Material Total-				$13.05	
Concrete Pavers		385	$106.62	$41,048.70	
Complete Irrigation System				$25,307.75	1 median tapping into northern system (pump/well)
GRAND TOTAL COST				$88,019.50	
Notes:					
1. This is a Conceptual Cost Estimate. Price reflects current plant prices, availability and specifications.					

SECTION NO: 86028
S.R. NO(S): 834 (Sample Rd.)
COUNTY: Broward
FM NO.(S): 421656-1-52-01

DISTRICT FOUR (4) AMENDMENT # TWO (2) TO STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION AND CITY OF COCONUT CREEK LANDSCAPE INCLUSIVE LANDSCAPE MEMORANDUM OF AGREEMENT

This is Amendment Number Two to the Agreement dated May 27, 2009, made and entered into this 10th day of March 2010 by and between the State of Florida Department of Transportation hereinafter called the "**DEPARTMENT**" and the City of Coconut Creek, a political subdivision of the State of Florida, hereinafter called the "**AGENCY**".

WHEREAS, the parties entered into the Inclusive Maintenance of Agreement dated May 27, 2009 for the purpose of maintaining the landscape improvements by the AGENCY on various State Roads including State Road 834 (Sample Road) and

WHEREAS, the DEPARTMENT and the AGENCY have agreed to add additional landscape improvements to be installed on State Road 834 (Sample Road) in accordance with the above referenced Agreement;

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

1. Pursuant to paragraph 6 of the Inclusive Agreement for State Road 834 dated May 27, 2009 the **DEPARTMENT** has decided to construct additional landscape improvements or to modify an improvement located as indicated in Exhibit A. State Road 834 (Sample Road) from west of N.W. 54th Avenue (M.P. 3.221) to east of Tradewinds Park Road (M.P. 4.763) in accordance with the plans attached as Exhibit B.

2. 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.

3. The DEPARTMENT agrees to enter into a contract to have installed said landscape improvements for an amount as indicated in Exhibit D not to exceed **$72,283.71**.

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 & MAINTENANCE BOUNDARIES & 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 2010 year written and approved.

City of Coconut Creek
a municipal corporation.

BY: _____
David J. Rivera
City Manager

ATTEST:

_____
Barbara S. Price,
City Clerk

APPROVED AS TO FORM:

_____
Paul S. Stuart
City Attorney NANCY A. COUSINS

State of Florida
Department of Transportation

BY: _____
Transportation Development

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

_____ March 10, 2010
Office of the General Counsel Date

SECTION NO: 86028
S.R. NO(S): 834 (Sample Rd.)
COUNTY: Broward
FM NO.(S): 421656-1-52-01

EXHIBIT A

I. PROJECT LOCATION:

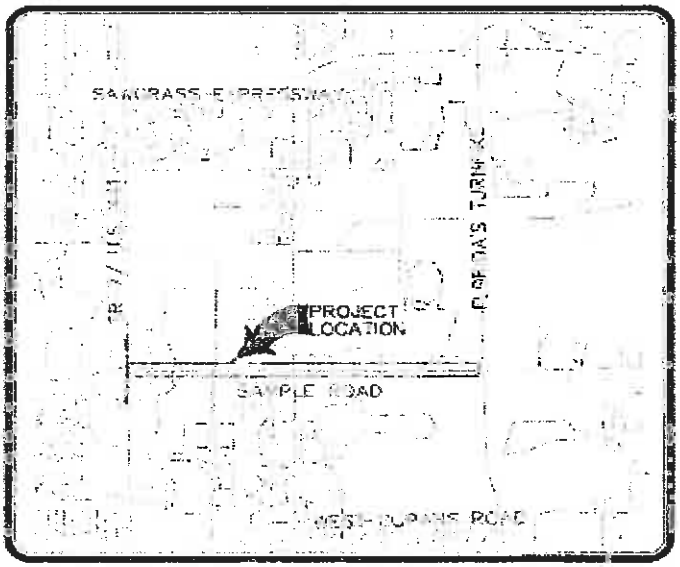
State Road 834 (Sample Road) from west of N.W. 54th Avenue (M.P. 3.221) to east of Tradewinds Park Road (M.P. 4.763) (City of Coconut Creek, in Broward County)

II. PROJECT MAINTENANCE LIMITS FOR THIS PROJECT:

State Road 834 (Sample Road) from west of N.W. 54th Avenue (M.P. 3.221) to east of Tradewinds Park Road (M.P. 4.763) (City of Coconut Creek, in Broward County). The Agency shall still be responsible for the maintenance of SR 834 (Sample road) from M.P. 3.008 to M.P. 5.030 and all other roads listed in the original agreement.

III. PROJECT MAINTENANCE BOUNDARY MAP:

BEGIN PROJECT



END PROJECT

LOCATION MAP

SECTION NO: 86028
S.R. NO(S): 834 (Sample Rd.)
COUNTY: Broward
FM NO.(S): 421656-1-52-01

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: Ken Gardner R.L.A.
Rosenberg Gardner Design
Dated: 2/11/2010

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 421656-1-52-01

BROWARD COUNTY (86028)

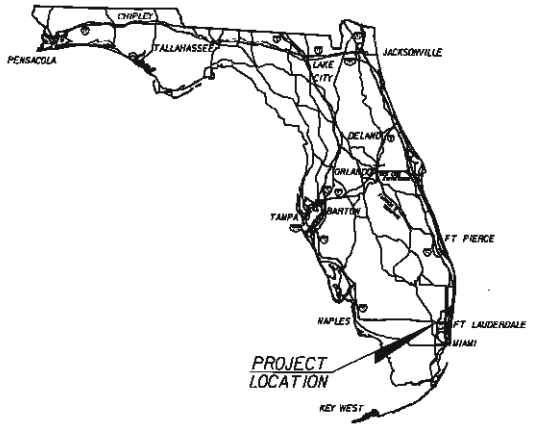
STATE ROAD NO. 834 (SAMPLE ROAD)

FROM WEST OF NW 54 AVE TO EAST OF TRADEWINDS PARK ROAD

LANDSCAPE PLANS

INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2	KEY MAP
LD-3	TABULATION OF QUANTITIES/PLANT SCHEDULE
LD-4	TABULATION OF QUANTITIES IRRIGATION & SITE AMENTITIES
LD-5	GENERAL AND PAY ITEM NOTES
LD-6	EXISTING TREE DISPOSITION LIST
LD-7 - LD-10	EXISTING LANDSCAPE DISPOSITION PLAN
LD-11 - LD-14	PLANTING PLAN
LD-15	IRRIGATION PLAN
LD-16	FLEXIBLE SWING JOINT DETAIL



LANDSCAPE SHOP DRAWINGS TO BE SUBMITTED TO:

ROSENBERG GARDNER DESIGN
ATTN: KEN GARDNER
5190 N.W. 167 STREET, SUITE 111
MIAMI, FLORIDA 33014

PLANS PREPARED BY:

ROSENBERG GARDNER DESIGN

LANDSCAPE ARCHITECTURE
LAND PLANNING
5190 NW 167th ST, Suite 111
MIAMI, FLORIDA 33014
PHONE: 305-620-7761
FAX: 305-520-7787
CORPORATE #: LC0000295
www.ROSENBERGGARDNER.com

CONTRACT NO. C-8095
VENDOR NO. (355)957-001
C.A. NO. LC0000266

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

KEY SHEET REVISIONS	
DATE	DESCRIPTION

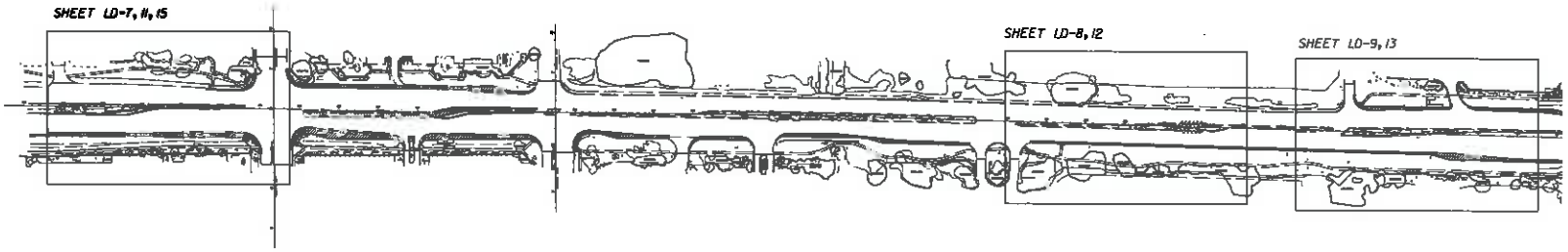
LANDSCAPE PLANS LANDSCAPE ARCHITECT OF RECORD: KEN GARDNER

R.L.A. NO.:

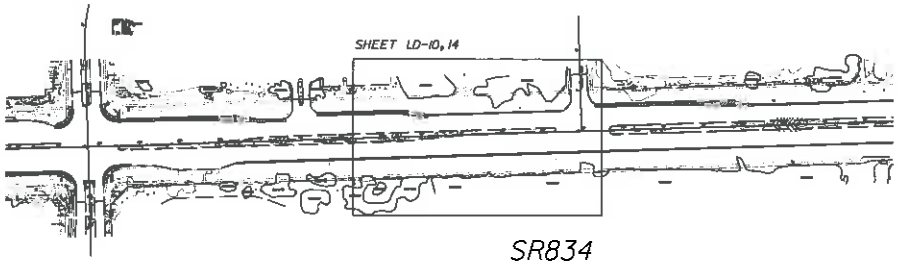
FISCAL YEAR	SHEET NO.
11	LD-1

FDOT PROJECT MANAGER: THUC LE, P.E.

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.001, F.A.C.



SR834



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REVISIONS				ROSENBERG GARDNER DESIGN	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			KEY MAP	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					834	BROWARD	421656-1-52-01		LD-2

TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET		GRAND TOTAL	
										LD-11		LD-12		LD-13		LD-14					
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
162-1-12			PREPARED SOIL LAYER						SY	408		205		300		237		1150		1150	
570-1-2	SMALL	SOD	ST. AUGUSTINE "FLORATAM"		SOLID SOD, PATCH AS REQUIRED	3"			SF	55								55		55	
570-1-1	LARGE	PHDA	PHOENIX DACTYLIFERA 'MEDJOOL'	MEDJOOL DATE PALM	25' TALL	N/A	N/A		EA	1								1		1	
580-1-1	SMALL	JUPA	JUNIPERUS DAVURICA 'PARSONII'	PARSON'S JUNIPER	1 GAL. CANS, FULL	12"	12"		EA	2530		2057		2350		1670		8607		8607	
590-70			IRRIGATION SYSTEM COMPLETE						LS									1		1	

TABULATION OF QUANTITIES / PLANT SCHEDULE

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROSENBERG GARDNER DESIGN
LANDSCAPE ARCHITECTURE
LAND PLANNING
KEN GARDNER, FL LA 0181

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	42[illegible]56-1-52-01

TABULATION OF QUANTITIES
PLANT SCHEDULE

SHEET NO.
LD-3

TABULATION OF QUANTITIES
/ SCHEDULE FOR IRRIGATION & SITE AMENTITIES

SYMBOL	QUANTITY	UNIT	DESCRIPTION / REMARKS
———	AS REQUIRED		PVC LATERALS & MAINS SHALL BE SCHEDULE 40 PVC (SIZED AS SHOWN ON PLANS) FLEXIBLE PVC OR POLYPIPE (FOR SWING JOINTS)
			RAINBIRD SPRAY HEADS 1800 @ 30 PSI SERIES W/MPR NOZZLES (OR APPROVAL EQUAL) 12" POP-UP IN SHRUB AREAS
	12	EA	15-H (1.85 GPM)
	2	EA	15-SST (1.21 GPM)
	1	EA	15-EST (0.61 GPM)

TABULATION OF QUANTITIES
/ SCHEDULE FOR IRRIGATION & SITE AMENTITIES

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROSENBERG GARDNER DESIGN
LANDSCAPE ARCHITECTURE LAND PLANNING
KEN GARDNER, FL LA 0001111

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	421656-1-52-01

TABULATION OF QUANTITIES
IRRIGATION & SITE AMENTITIES

SHEET NO. LD-4

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G1-11.011, F.A.C.

GENERAL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND FEDERAL REQUIREMENTS.

2. ALL TREES AND PALMS SHOWN TO BE REMOVED IN THE EXISTING TREE DISPOSITION PLANS SHALL BE INCLUDED UNDER 110-1-1 CLEARING AND GRUBBING.
(REFER TO ROADWAY PLANS) THE COST FOR THE REMOVAL OF ANY EXISTING INVASIVE VEGETATION WITHIN THE PROJECT LIMITS SHALL BE INCLUDED UNDER 110-1-1 CLEARING AND GRUBBING.

3. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE CONTINUAL OPERATION OF ANY SPRINKLER SYSTEM ENCOUNTERED IN THE ROW, BY IMMEDIATELY REPAIRING AND REPLACING PIPES, SPRINKLER HEADS, AND IRRIGATION CONTROLS. THE COST OF REPAIRING OR MAINTAINING EXISTING IRRIGATION SYSTEMS SHALL BE INCLUDED IN THE COST FOR IRRIGATION (0590-70). WHEN THE OPERATION OF THE SYSTEM IS INTERRUPTED, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE WATER BY OTHER MEANS, SUCH AS HAND WATERING OR WATER TRUCK.

4. PROTECTION OF EXISTING VEGETATIONPRIOR TO AND DURING CONSTRUCTION, SURROUND ALL LANDSCAPE TO REMAIN AS PER INDEX 544. STAKE MESH A MINIMUM OF 6 FEET ON CENTER. KEEP PROTECTION AS FAR AS POSSIBLE FROM THE PLANTS CONSISTENT WITH MOT AND SPACE FOR
CONSTRUCTION. IN CLEAR SIGHT ZONES (PER INDEX 546), KEEP MESH NO HIGHER THAN 18 INCHES ABOVE TOP OF CURB HEIGHT. USE 1 INCH PVC
STAKES IN HORIZONTAL CLEAR ZONE.

5. THE COST OF ALL LANDSCAPE AND IRRIGATION MAINTENANCE ACTIVITES SHALL BE INCLUDED IN THE COST FOR PAY ITEM (0590-70)

6. ALL EXISTING LANDSCAPE SHALL BE FERTILIZED SUFFICIENTLY TO MAINTAIN A HEALTHY, GROWING STATE THROUGHOUT CONSTRUCTION AND THE ONE-YEAR MAINTENANCE AND WARRANTLY PERIOD.

7. THE PALMS SHALL BE ROUTINELY EVALUATED DURING CONSTRUCTION AND WARRANTY PERIOD FOR PEST INFESTATION AND TREATED AS DEEMED
NECESSARY.

8. ISA CERTIFIED ARBORIST CURRENT WITH A BROWARD COUNTY TREE TRIMMERS LICENSE MUST BE PRESENT ON SITE TO SUPERVISE THE TRIMMING OF ANY EXISTING TREES AND PALMS IN THE R.O.W.

PAY ITEM NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THE PAY ITEM FOR CLEARING & GRUBBING (110-1-1, SEE ROADWAY PLANS), FOR THE COST OF REMOVING FROM ANY NEW LANDSCAPE AREAS IN THE MEDIANS, PRIOR TO PLANTING AND IRRIGATION INSTALLATION, ALL ASPHALT OR CONCRETE PAVING, LIMESTONE ROADROCK RUBBLE, AND COMPACTED ROAD BASE DOWN 12" MEASURED FROM ADJACENT TOP OF ASPHALT.

2. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER CLEARING AND GRUBBING PAY ITEM FOR REPLACING ANY SHRUBS, PALMS, AND TREES DAMAGED DURING CONSTRUCTION. THE SAME SPECIES SHALL BE USED, AND THE SIZES OF PALMS AND TREES SHALL MATCH AS CLOSELY AS POSSIBLE THE SIZES OF THOSE NEEDING REPLACEMENT.

PAY ITEM 162-1-12 SHALL INCLUDE THE FOLLOWING:

1. BACKFILL THOSE AREAS OF THE MEDIANS EXCAVATED FOR LANDSCAPING TO WITHIN 3" FROM TOP OF CURB.

2. SUBMIT A SOIL SAMPLE TO PROJECT ENGINEER FOR APPROVAL BEFORE BACKFILLING.

GENERAL IRRIGATION NOTES:

1. SCOPE OF WORK: THE CONTRACTOR SHALL FURNISH ALL LABOR, MACHINERY, TOOLS, SUPPLIES, AND EQUIPMENT AS NECESSARY TO CONSTRUCT AND PROVIDE AN OPERATING SYSTEM, AS INDICATED IN THE PLANS. THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, FURNISHING MATERIALS (PIPE, SPRINKLER HEADS, FITTINGS, PRIMER, GLUE, ETC.), LAYOUT, PROTECTION TO THE PUBLIC, EXCAVATION, ASSEMBLY, INSTALLATION, BACKFILLING, COMPACTION, REPAIR OF ROAD OR PAVEMENT SURFACES, CLEAN-UP, MAINTENANCE AND GUARANTEE, AND AS-BUILT PLANS.

2. GUARANTEE: THE IRRIGATION SYSTEM SHALL BE GUARANTEED FOR A MINIMUM OF ONE CALENDAR YEAR FROM THE TIME OF FINAL ACCEPTANCE.

3. REPAIR UTILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION OF ALL UTILITIES BY HAND EXCAVATION OR OTHER APPROPRIATE MEASURES BEFORE PERFORMING ANY WORK THAT MAY RESULT IN DAMAGE TO UTILITIES STRUCTURES, OR PROPERTY. THE CONTRACTOR SHALL TAKE IMMEDIATE STEPS TO REPAIR, REPLACE, OR RESTORE ALL SERVICES TO ANY UTILITIES WHICH ARE DISRUPTED DUE TO HIS OPERATIONS. ALL COSTS INVOLVED IN DISRUPTION OF SERVICE AND REPAIRS DUE TO NEGLIGENCE ON PART OF THE CONTRACTOR SHALL BE HIS RESPONSIBILITY.

4. AS-BUILT DRAWINGS: PRINTS OF THE PLANS WILL BE SUPPLIED TO THE CONTRACTOR FOR RECORDING "AS-BUILT" INFORMATION. IMMEDIATELY UPON INSTALLATION OF ANY WORK WHICH DEVIATES FROM WHAT IS SHOWN ON THE PLANS, THE CONTRACTOR SHALL CLEARLY INDICATE SUCH CHANGES IN RED PENCIL ON THE PRINTS. SUCH CHANGES SHALL INCLUDE, BUT NOT BE LIMITED TO, CHANGES IN (1) MATERIALS; (2) SIZES OF MATERIAL; (3) LOCATION; AND (4) QUANTITIES.

5. THE ENTIRE INSTALLATION SHALL FULLY COMPLY WITH ALL APPLICABLE LOCAL AND STATE CODES AND ORDINANCES. THE CONTRACTOR SHALL TAKE OUT ALL REQUIRED PLUMBING AND ELECTRICAL APPLICATIONS AND PERMITS, ARRANGE FOR ALL NECESSARY INSPECTIONS AND SHALL PAY ALL FEES AND EXPENSES IN CONNECTION WITH SAME AS PART OF WORK UNDER THE CONTRACT.

6. UNIT PRICES: THE SUCCESSFUL BIDDER SHALL FURNISH, TO THE OWNER, A UNIT PRICE BREAKDOWN FOR ALL MATERIALS. THE OWNER MAY AT HIS OWN DISCRETION, ADD TO OR DELETE FROM THE MATERIALS, USING THE UNIT PRICE BREAKDOWN SUBMITTED TO AND ACCEPTED BY THE OWNER.

7. MAINTENANCE PERIOD: THE IRRIGATION SYSTEM SHALL BE MAINTAINED FOR A PERIOD OF 90 DAYS AFTER FINAL ACCEPTANCE OF INSTALLATION. MAINTENANCE SHALL INCLUDE CHECKING OF THE SYSTEM 2 TIMES PER WEEK. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE/REPAIR ANY BROKEN OR MALFUNCTIONING PARTS OF THE SYSTEM INCLUDING THOSE DAMAGED BY ACCIDENTS OR VANDALISM. REPAIRS SHALL BE MADE IMMEDIATELY AT THE TIME OF INSPECTION OR WHEN NOTIFIED BY THE PROJECT ENGINEER.

8. THE IRRIGATION SYSTEM SHALL PROVIDE 100% COVERAGE WITH A MINIMUM OF 90% OVERLAP OF WATER SPRAY.

9. THE SYSTEM IS DESIGN TO PROVIDE SPRINKLER PRECIPITATION RATES THAT ARE NEARLY EQUAL IN EACH ZONE. MIXING OF SPRINKLERS WITH WIDELY VARYING PRECIPITATION RATES IN A ZONE WILL NOT BE ACCEPTED.

10. ALL PIPE SHALL BE MADE OF SCHEDULE 40 PVC, EXCEPT FLEXIBLE PVC (OR TORO FUNNY PIPE) FOR FLEXIBLE SWING JOINTS. PIPE LOCATIONS SHALL BE ADJUSTED IN THE FIELD. WHEN LAYING OUT MAINS AND LATERALS, LOCATE PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHEREVER POSSIBLE, TO ALLOW SPACE FOR PLANT ROOTBALLS. COORDINATE PIPE LOCATIONS WITH PLANTINGS. BURY ALL LATERALS 12". DEPTH SHALL BE MEASURED TO TOP OF PIPE.

11. KEEP POP-UP SPRINKLER HEADS A MINIMUM OF 12" FROM EDGES OF CURBING.

IRRIGATION EXPANSION NOTES:

IT IS ANTICIPATED THAT AFTER COMPLETION OF THESE TASKS THERE WILL BE A FULLY FUNCTIONING AUTOMATIC IRRIGATION SYSTEM (EQUIPPED WITH AN AUTOMATIC RAIN-SHUT OFF DEVICE) THAT WILL PROVIDE IRRIGATION TO ALL NEW LANDSCAPE AREAS WITH 90% OVERLAP OF SPRAY.

1.THE CONTRACTOR SHALL LOCATE EXISTING CONNECTION TO WATER SOURCE (PUMP AND WELL, LAKE INTAKE OR WATER METER), CONTROLLER, RAIN SHUT OFF DEVICE, VALVES AND MAINLINE. THE CONTRACTOR SHALL THEN VERIFY THAT ALL SYSTEMS ARE IN WORKING ORDER AND PERFORM A FLOW TEST TO DETERMINE THE AMOUNT OF WATER FLOW AND PRESSURE THROUGHOUT THE SYSTEM.
2.IF THERE IS NO EXISTING RAIN SHUT OFF DEVICE THEN THE CONTRACTOR SHALL FURNISH AND INSTALL A NEW ONE. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE ELECTRICAL HOOK UP IS PERFORMED TO ALL APPLICABLE CODES AND ORDINANCES.
3.IF FLOWS ARE NOT SUFFICIENT TO PROPERLY OPERATE THE SYSTEM, THE CONTRACTOR SHALL MAKE SUGGESTIONS FOR CORRECTIONS.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROSENBERG GARDNER DESIGN
LANDSCAPE ARCHITECTURE LAND PLANNING
NEW GARDNER, FL LA 0101?

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	421656-1-52-01

GENERAL AND PAY ITEM NOTES

SHEET NO. LD-5

TREE #	COMMON NAME	BOTANICAL NAME	NATIVE	DBH (In.)	CANOPY AREA (sq. ft.)	TO BE REMOVED	TO REMAIN	TO BE RELOCATED	STATION	OFFSET	NOTES
CITY OF COCONUT CREEK											
1	Sabal Palm	Sabal palmetto	Y	12	79		X		268+84.564	(-)10.11'	
2	Sabal Palm	Sabal palmetto	Y	12	79		X		268+89.781	0'	
3	Sabal Palm	Sabal palmetto	Y	12	79		X		268+94.811	(-)10.11'	
4	Sabal Palm	Sabal palmetto	Y	12	79		X		269+00.529	0'	
5	Sabal Palm	Sabal palmetto	Y	12	79		X		269+04.843	(-)10.24'	
6	Sabal Palm	Sabal palmetto	Y	12	79		X		269+09.523	(-)11.01'	
7	Sabal Palm	Sabal palmetto	Y	12	79		X		269+15.078	(-)10.38'	
8	Sabal Palm	Sabal palmetto	Y	12	79		X		269+20.075	(-)11.08'	
9	Sabal Palm	Sabal palmetto	Y	12	79		X		269+25.913	(-)10.31'	
10	Sabal Palm	Sabal palmetto	Y	12	79		X		269+30.395	(-)11.12'	
11	Sabal Palm	Sabal palmetto	Y	12	79		X		269+34.668	(-)10.32'	
12	Sabal Palm	Sabal palmetto	Y	12	79		X		269+39.909	0'	
13	Sabal Palm	Sabal palmetto	Y	12	79		X		269+43.771	(-)10.41'	
14	Sabal Palm	Sabal palmetto	Y	12	79		X		269+50.066	0'	
15	Sabal Palm	Sabal palmetto	Y	12	79		X		269+55.149	(-)10.41'	
16	Solitaire Palm	Ptychosperma elegans	N	5	50		X		270+09.355	(-)13.81'	
17	Solitaire Palm	Ptychosperma elegans	N	7	50		X		270+50.101	(-)12.24'	
18	Solitaire Palm	Ptychosperma elegans	N	6	50	X			270+69.878	(-)11.74'	
19	Solitaire Palm	Ptychosperma elegans	N	6	50	X			270+89.861	(-)11.11'	
20	Medjool Date Palm	Phoenix dactylifera 'Medjool'	N	16	201	X			271+30.431	1.18'	
21	Royal Palm	Roystonea regia	Y	14	201		X		296+13.059	(-)15.1'	
22	Royal Palm	Roystonea regia	Y	14	201		X		296+27.788	(-)15.13'	
23	Royal Palm	Roystonea regia	Y	14	201		X		296+42.672	(-)15.13'	
24	Sabal Palm	Sabal palmetto	Y	10	79		X		297+24.768	(-)11.1'	
25	Sabal Palm	Sabal palmetto	Y	12	79	X			297+29.981	(-)13.67'	
26	Sabal Palm	Sabal palmetto	Y	12	79	X			297+34.908	(-)11.1'	
27	Sabal Palm	Sabal palmetto	Y	12	79	X			297+39.828	(-)13.42'	
28	Sabal Palm	Sabal palmetto	Y	10	79		X		297+44.602	0'	
29	Sabal Palm	Sabal palmetto	Y	12	79	X			297+49.377	(-)13.12'	
30	Sabal Palm	Sabal palmetto	Y	10	79	X			297+55.196	(-)11.26	
31	Sabal Palm	Sabal palmetto	Y	14	79	X			297+59.451	(-)13.03	
32	Sabal Palm	Sabal palmetto	Y	10	79		X		297+64.383	(-)11.14	
33	Sabal Palm	Sabal palmetto	Y	10	79	X			297+70.644	(-)12.72	
34	Sabal Palm	Sabal palmetto	Y	10	79	X			297+74.261	(-)11.14	
35	Sabal Palm	Sabal palmetto	Y	10	79	X			297+79.192	0.31	
36	Sabal Palm	Sabal palmetto	Y	12	79		X		297+85.056	(-)13.12	
37	Solitaire Palm	Ptychosperma elegans	N	6	50		X		301+87.482	(-)10.7	
38	Solitaire Palm	Ptychosperma elegans	N	6	50		X		302+05.499	(-)10.64	
39	Solitaire Palm	Ptychosperma elegans	N	6	50		X		302+27.184	0	
40	Solitaire Palm	Ptychosperma elegans	N	6	50		X		302+67.034	0.89	
41	Solitaire Palm	Ptychosperma elegans	N	6	50		X		302+87.812	1.21	
42	Medjool Date Palm	Phoenix dactylifera 'Medjool'	N	24	201		X		303+57.567	5.01	
43	Sabal Palm	Sabal palmetto	Y	10	79		X		329+10.158	(-)14.41	
44	Sabal Palm	Sabal palmetto	Y	10	79	X			329+13.941	3.11	
45	Sabal Palm	Sabal palmetto	Y	10	79	X			329+20.482	(-)14	
46	Sabal Palm	Sabal palmetto	Y	10	79		X		329+25.007	3.08	
47	Sabal Palm	Sabal palmetto	Y	10	79	X			329+30.503	(-)13.88	
48	Sabal Palm	Sabal palmetto	Y	10	79	X			329+33.564	2.76	
49	Sabal Palm	Sabal palmetto	Y	10	79		X		329+40.407	(-)13.52	
50	Royal Palm	Roystonea regia	Y	14	201		X		329+58.942	(-)10.74	
51	Royal Palm	Roystonea regia	Y	14	201		X		329+98.847	0.54	
52	Royal Palm	Roystonea regia	Y	14	201		X		330+18.693	1.01	
53	Royal Palm	Roystonea regia	Y	14	201		X		330+38.167	2.11	

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2/24/10

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

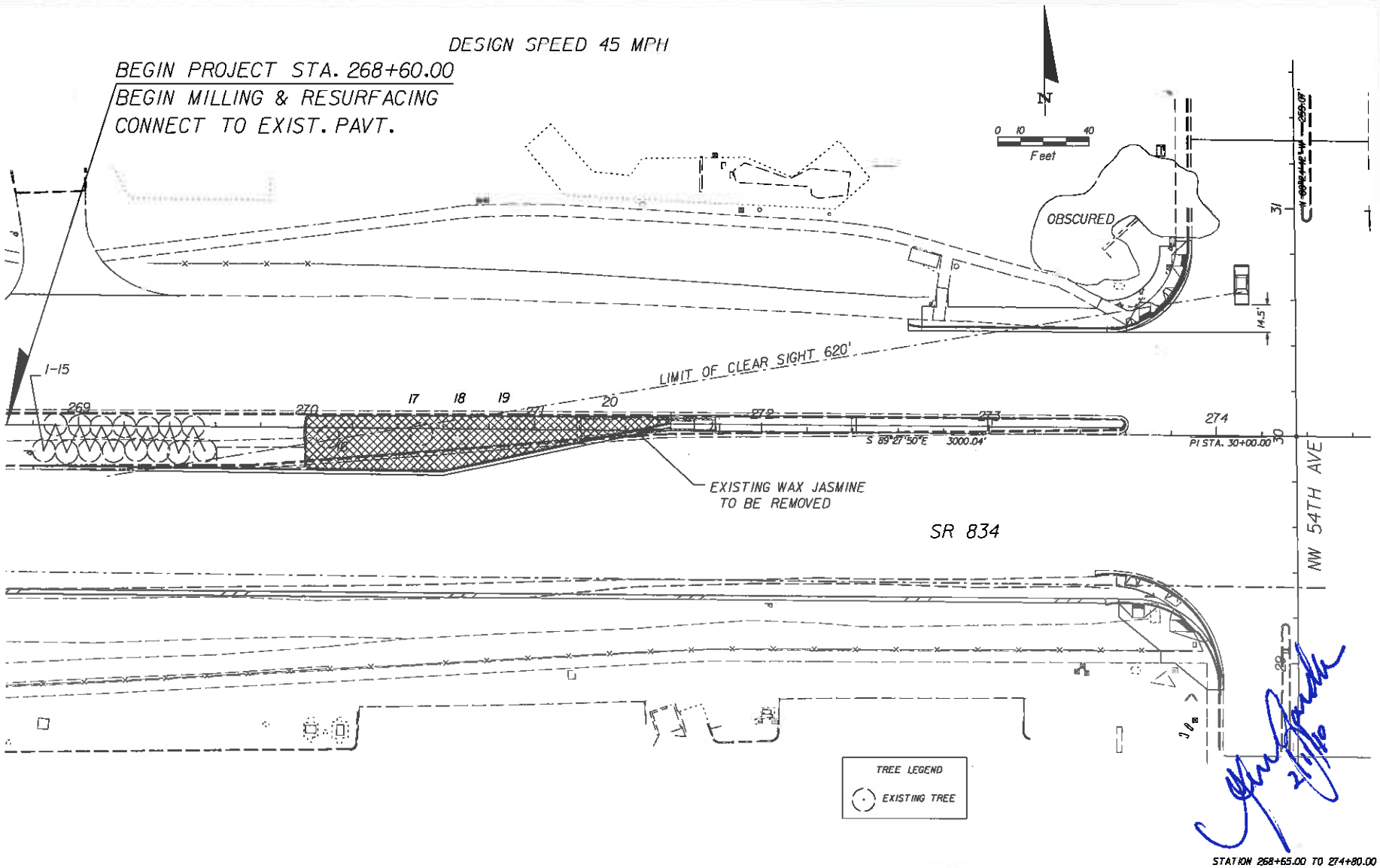
ROSENBERG GARDNER DESIGN
LANDSCAPE ARCHITECTURE LAND PLANNING
KEN GARDNER, FL LA 0667

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	421656-1-52-01

EXISTING TREE DISPOSITION LIST

SHEET NO. LD-6



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROSENBERG GARDNER DESIGN
LANDSCAPE ARCHITECTURE
LAND PLANNING

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	421656-1-52-01

EXISTING LANDSCAPE DISPOSITION PLAN

SHEET NO. LD-7

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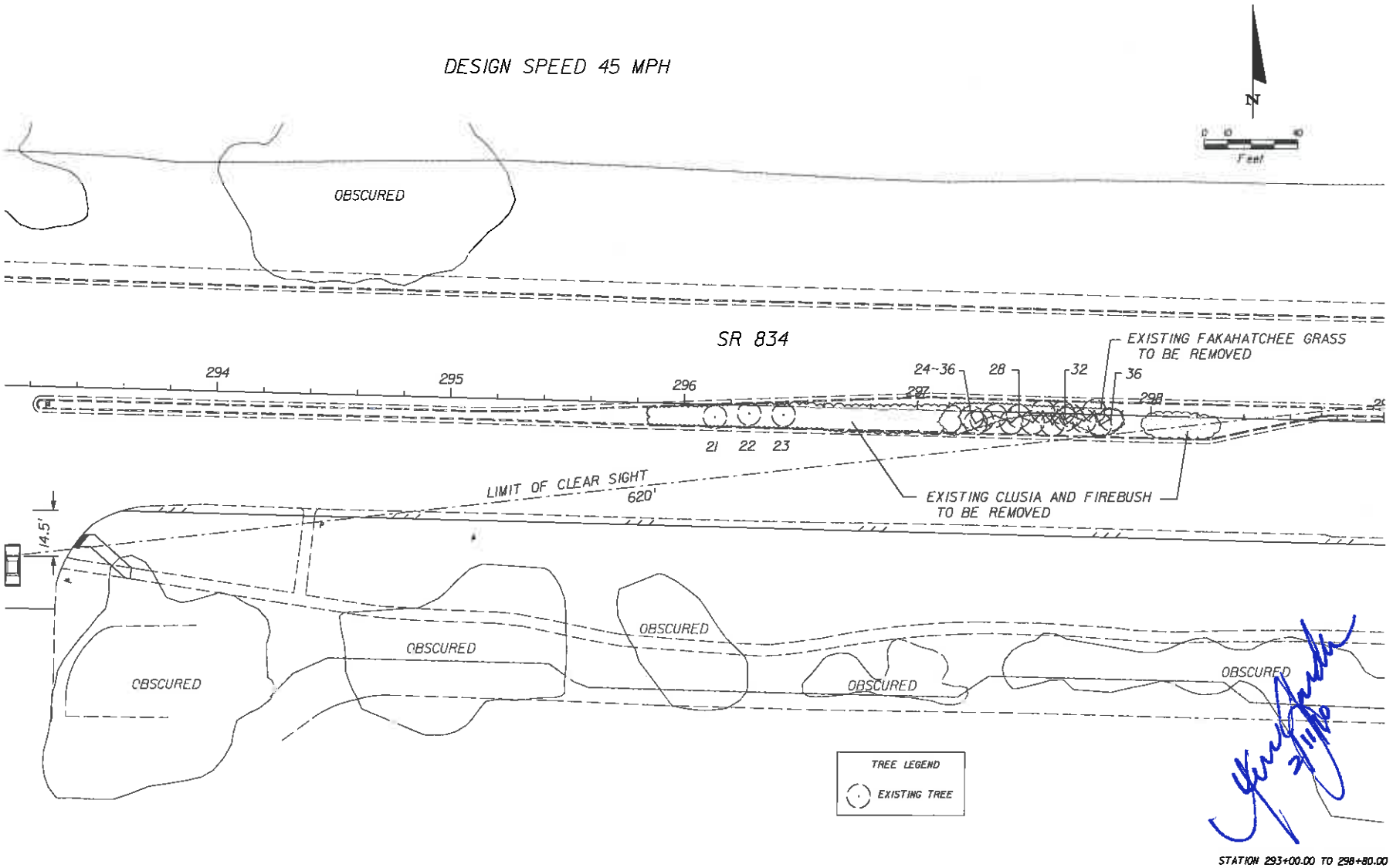
DESIGN SPEED 45 MPH



STATION 293+00.00 TO 298+80.00

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DATE	DESCRIPTION	DATE	DESCRIPTION

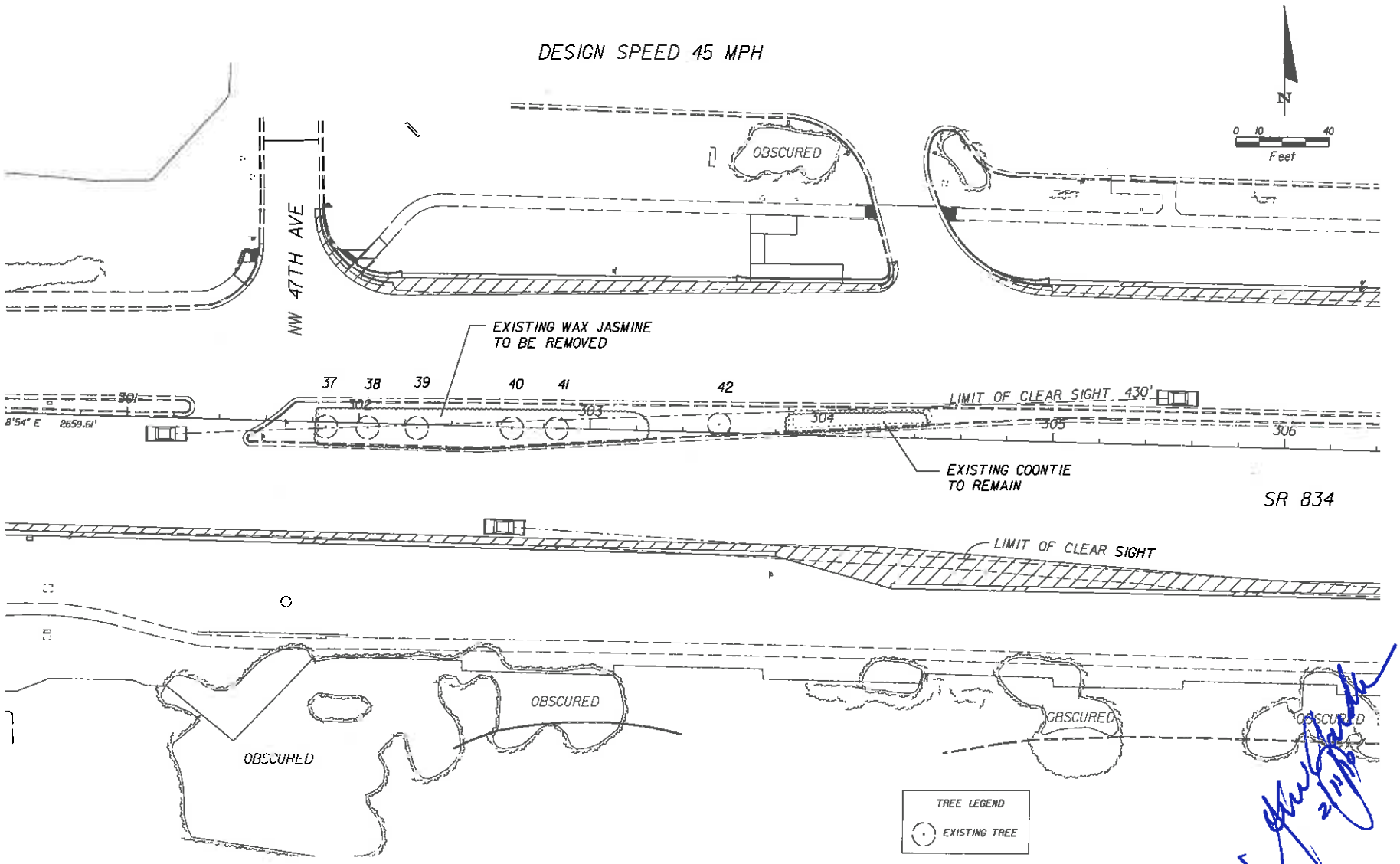
ROSENBERG GARDNER DESIGN
LANDSCAPE ARCHITECTURE
LAND PLANNING

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	421656-1-52-01

EXISTING LANDSCAPE DISPOSITION PLAN

SHEET NO. LD-8



STATION 300+60.00 TO 306+20.00

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DATE	DESCRIPTION	DATE	DESCRIPTION

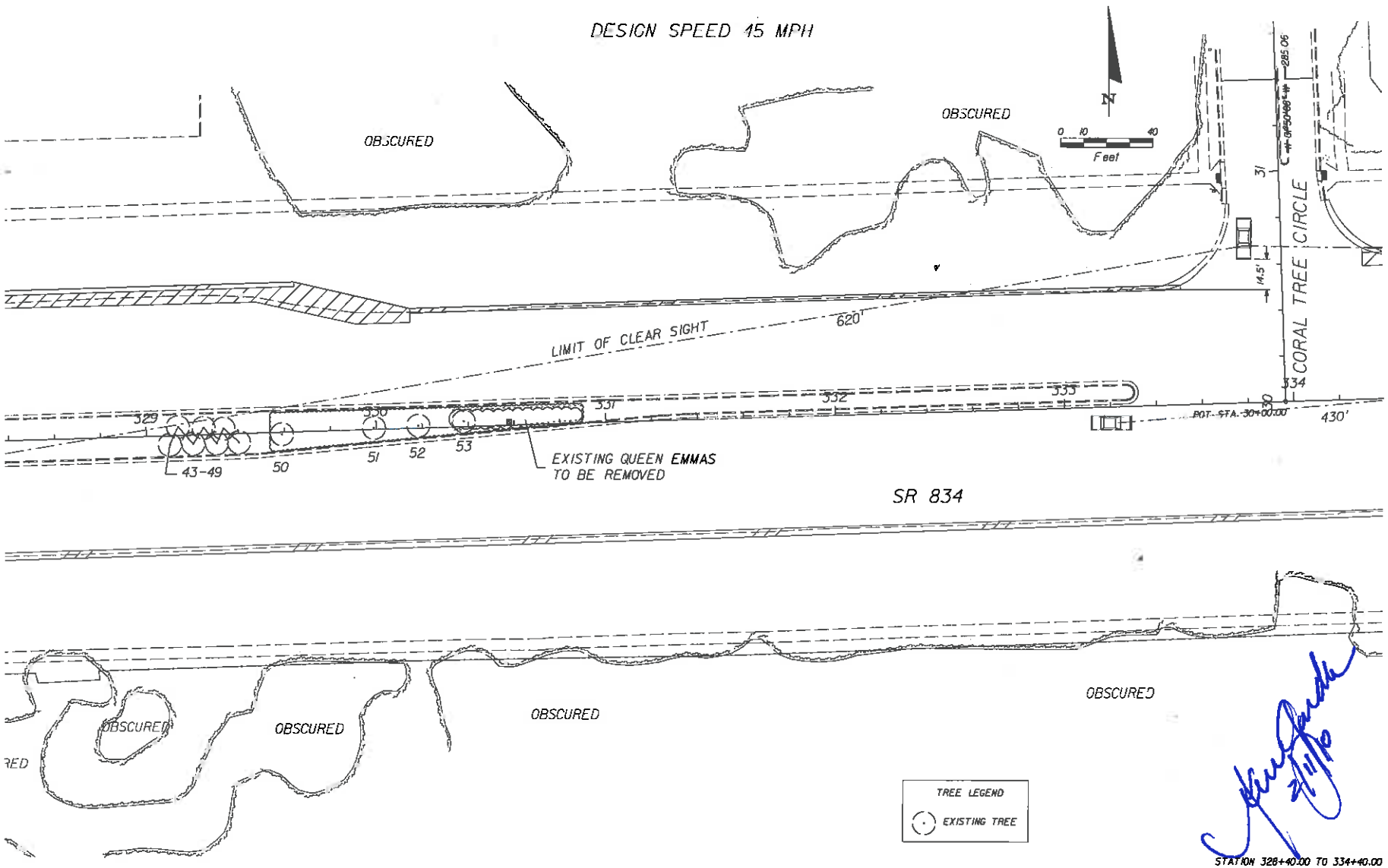
ROSENBERG GARDNER DESIGN
LANDSCAPE ARCHITECTURE
LAND PLANNING
KEN GARDNER, FL LA 0667813

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	421656-1-52-01

EXISTING LANDSCAPE DISPOSITION PLAN

SHEET NO. LD-9



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROSENBERG GARDNER DESIGN
LANDSCAPE ARCHITECTURE LAND PLANNING
KEN GARDNER, FL LA 0667

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	421656-1-52-01

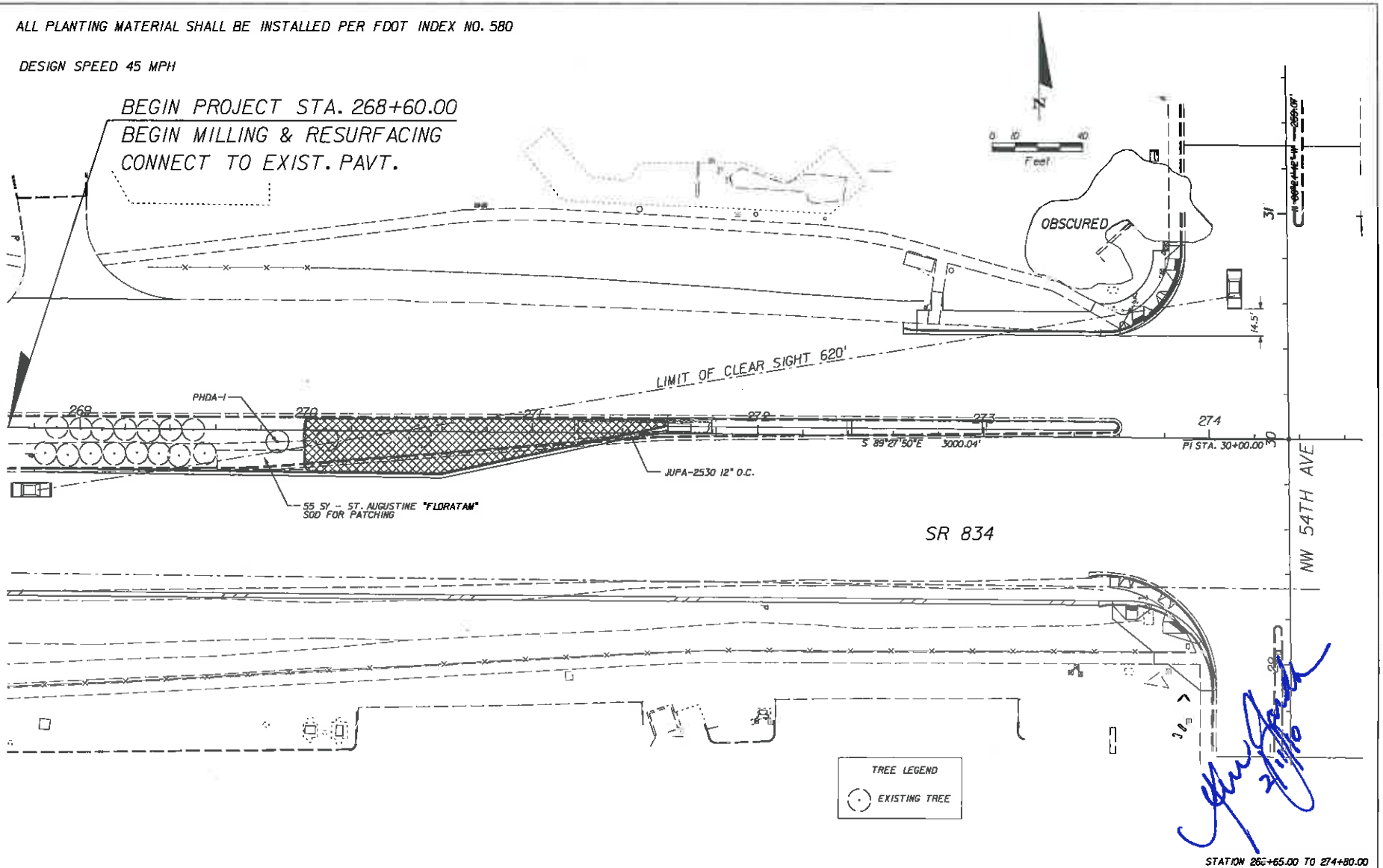
EXISTING LANDSCAPE DISPOSITION PLAN

SHEET NO. LD-10

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 5J60-11.011, F.A.C.

ALL PLANTING MATERIAL SHALL BE INSTALLED PER FDOT INDEX NO. 580

DESIGN SPEED 45 MPH



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROSENBERG GARDNER DESIGN
LANDSCAPE ARCHITECTURE LAND PLANNING
KEN GARDNER, FL LA #667

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	421656-1-52-01

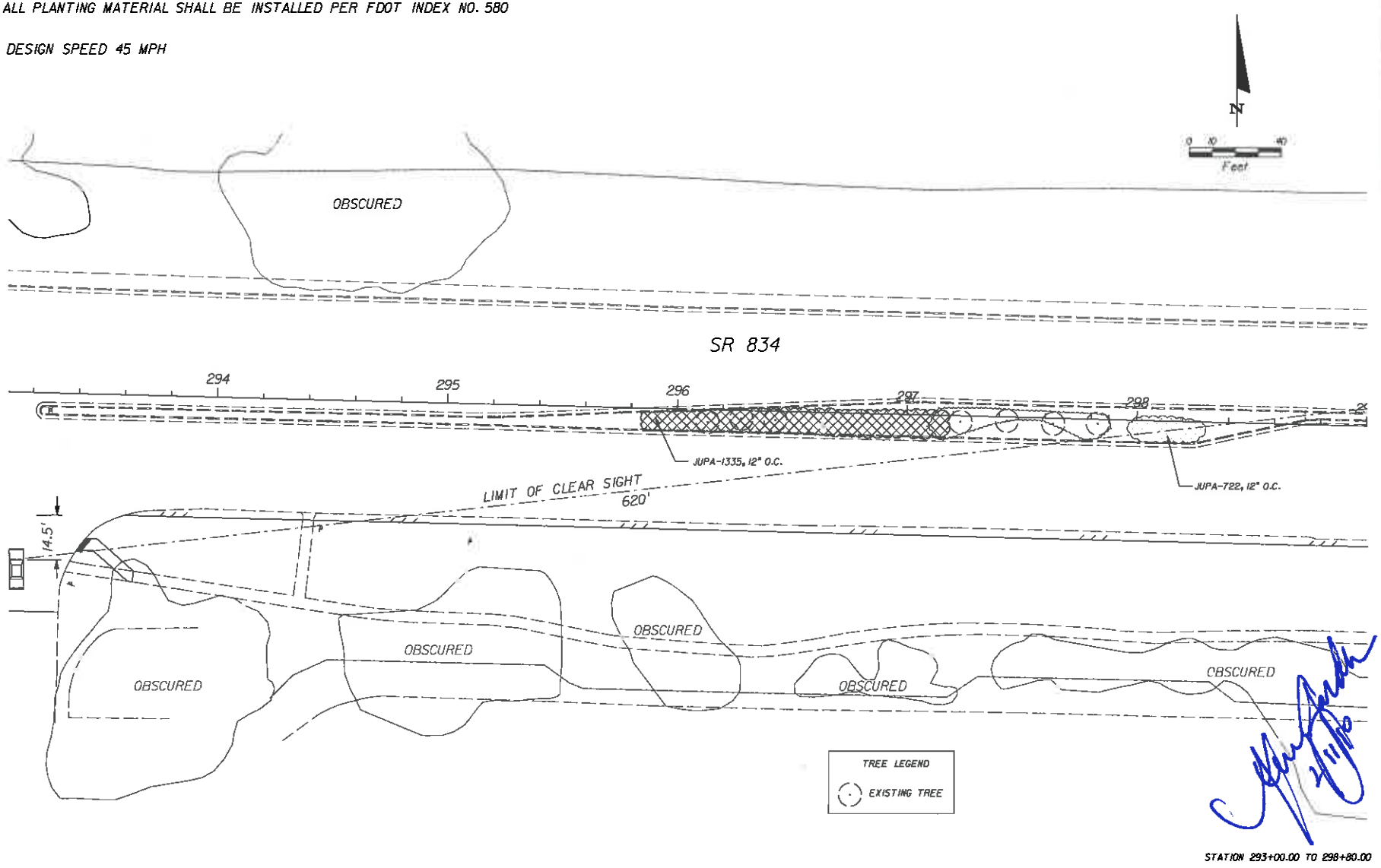
PLANTING PLAN

SHEET NO. LD-11

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

ALL PLANTING MATERIAL SHALL BE INSTALLED PER FDOT INDEX NO. 580

DESIGN SPEED 45 MPH



STATION 293+00.00 TO 298+80.00

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROSENBERG GARDNER DESIGN
LANDSCAPE ARCHITECTURE
LAND PLANNING
KEN GARDNER, FL LA 818

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

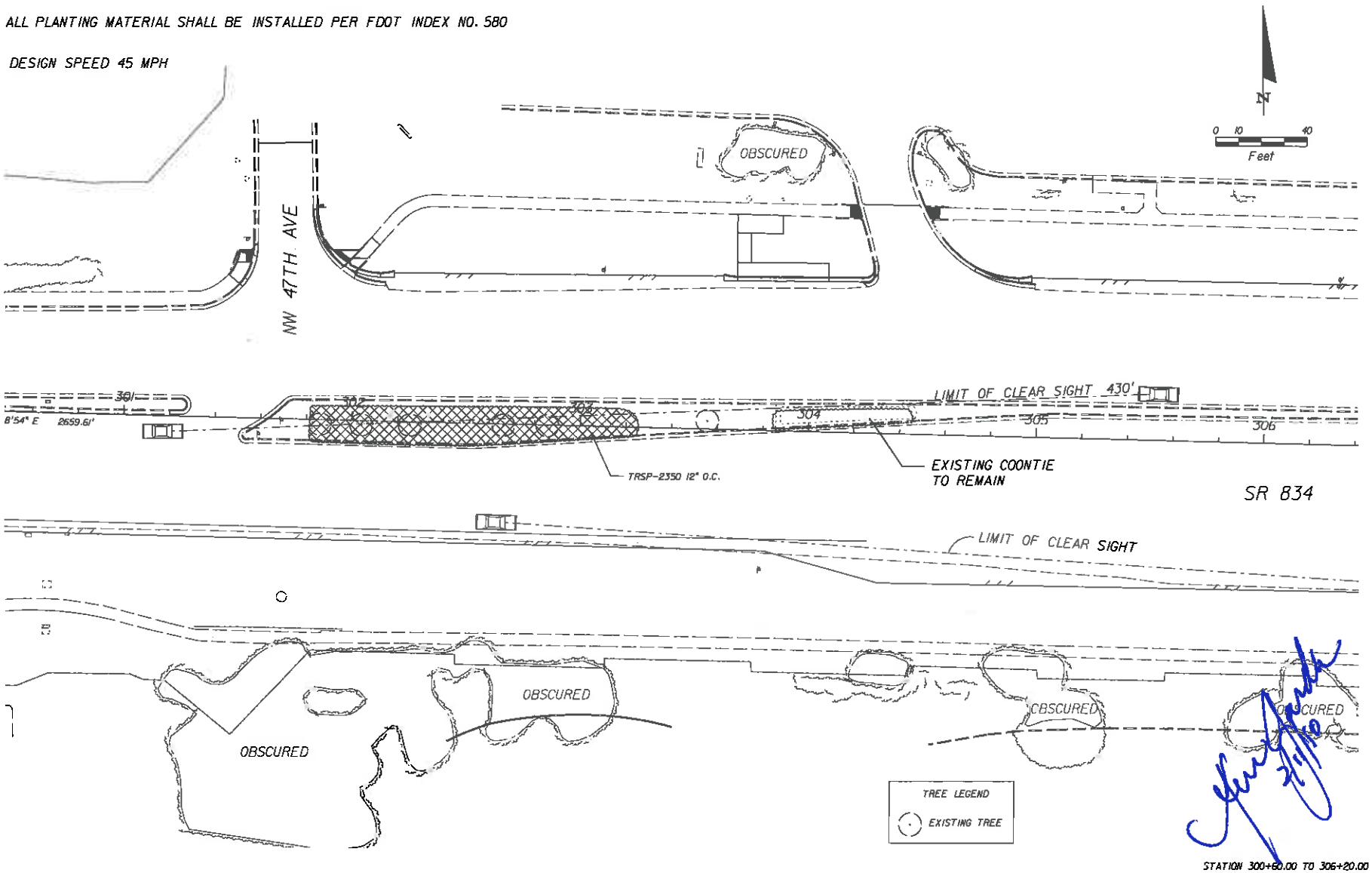
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	421656-1-52-01

PLANTING PLAN

SHEET NO.
LD-12

ALL PLANTING MATERIAL SHALL BE INSTALLED PER FDOT INDEX NO. 580

DESIGN SPEED 45 MPH



STATION 300+60.00 TO 306+20.00

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6G0-4.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROSENBERG GARDNER DESIGN
LANDSCAPE ARCHITECTURE LAND PLANNING
KEN GARDNER, FLLA #1569

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	421656-1-52-01

PLANTING PLAN

SHEET NO. LD-13

ALL PLANTING MATERIAL SHALL BE INSTALLED PER FDOT INDEX NO. 580

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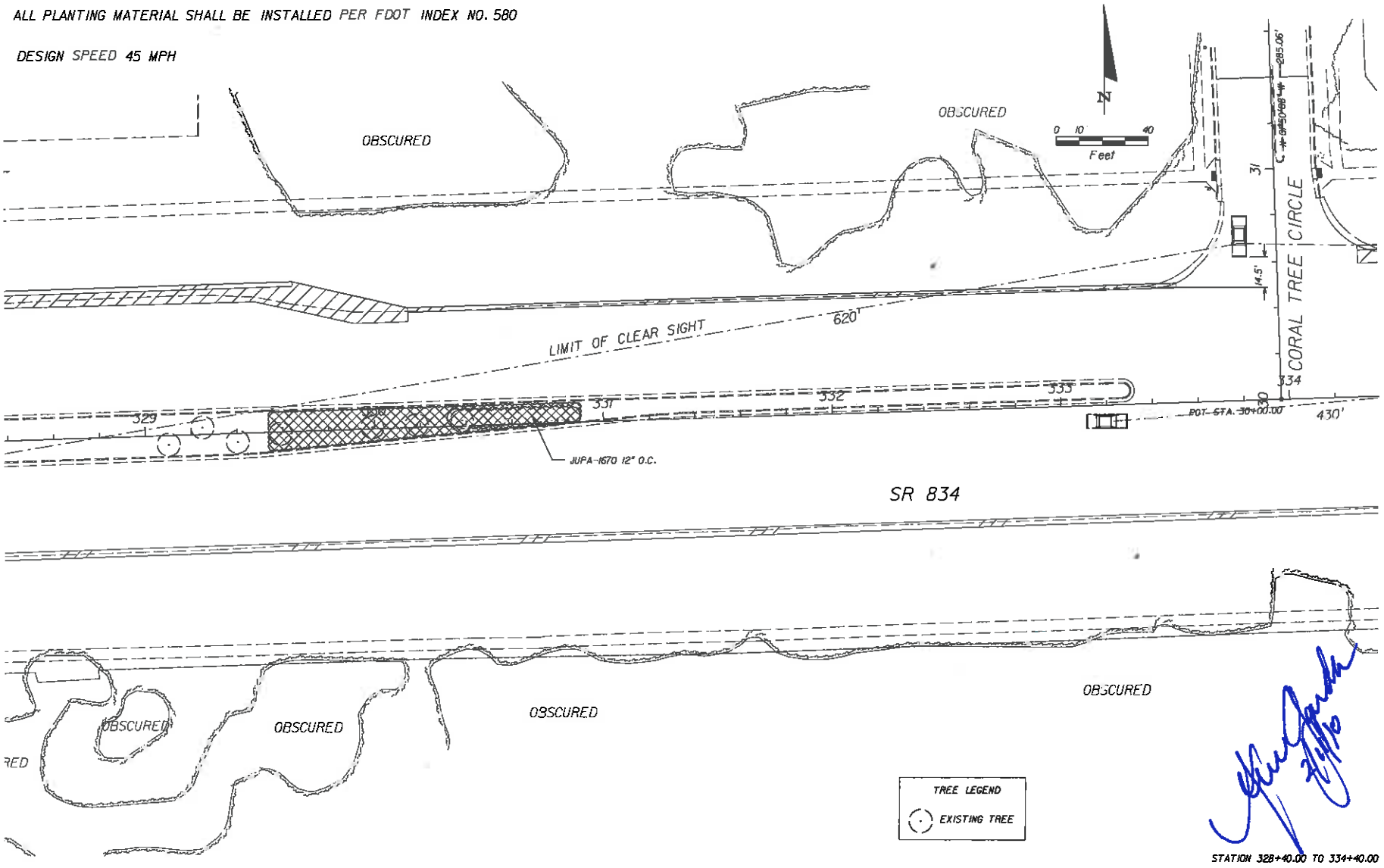


STATION 328+40.00 TO 334+40.00

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G10-4.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROSENBERG GARDNER DESIGN
LANDSCAPE ARCHITECTURE
LAND PLANNING
KEN GARDNER, FL LA #[illegible]

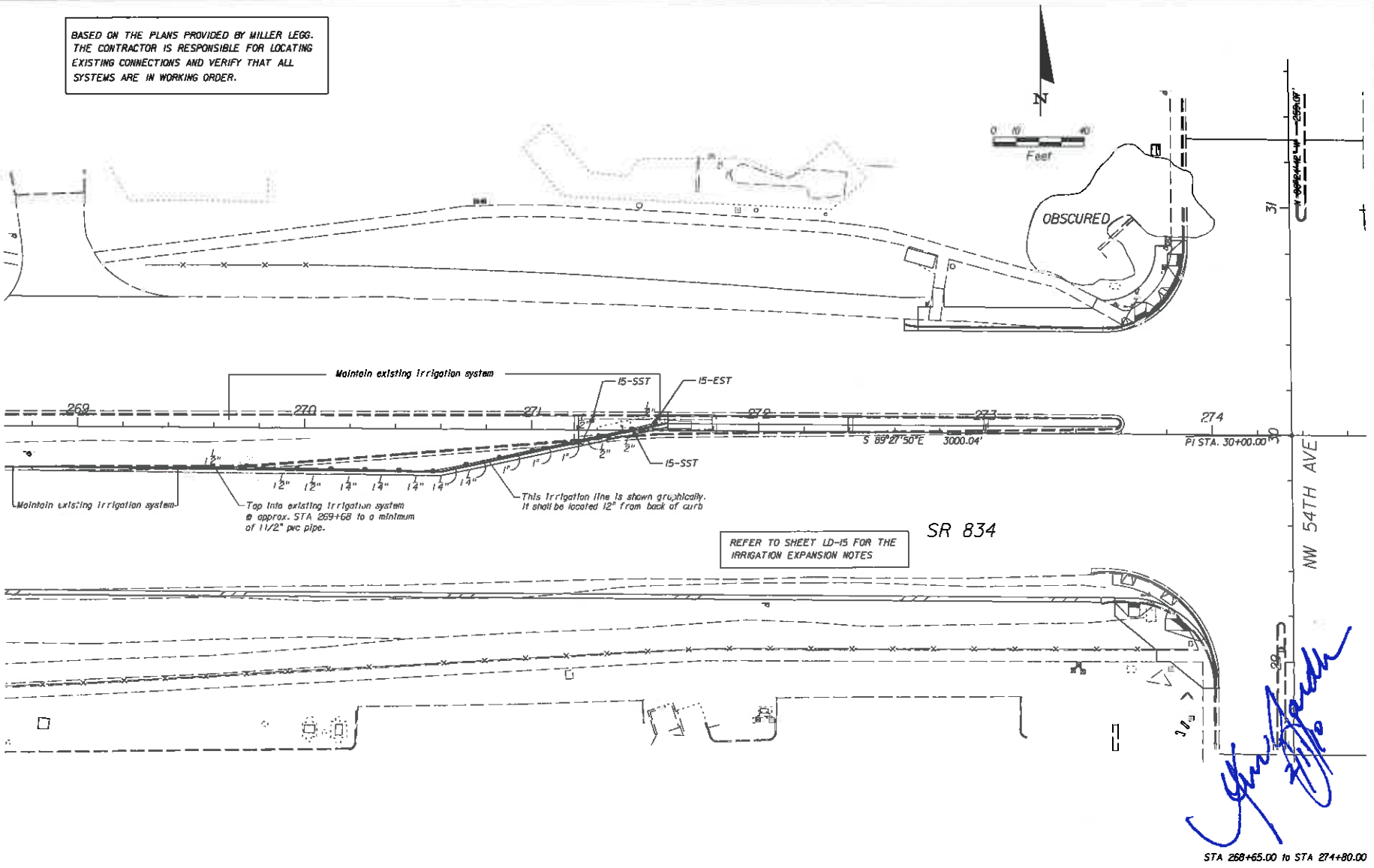
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	421656-1-52-01

PLANTING PLAN

SHEET NO. LD-14

BASED ON THE PLANS PROVIDED BY MILLER LEGG. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING CONNECTIONS AND VERIFY THAT ALL SYSTEMS ARE IN WORKING ORDER.



NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G10-1.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

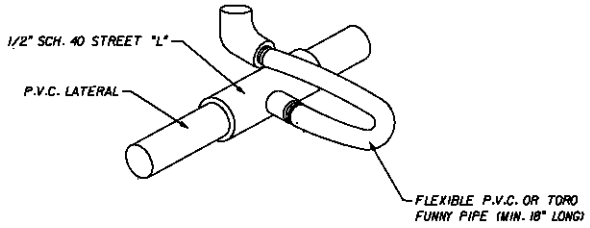
ROSENBERG GARDNER DESIGN
LANDSCAPE ARCHITECTURE LAND PLANNING
KEN GARDNER, FL LA #1888

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	421656-1-52-01

IRRIGATION PLAN

SHEET NO. LD-15



FLEXIBLE SWING JOINT DETAIL

N.T.S.

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G10-4.001, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROSENBERG GARDNER DESIGN
LANDSCAPE ARCHITECTURE
LAND PLANNING
KEN GARDNER, FL L.A. #[illegible]

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
834	BROWARD	421656-1-52-01

FLEXIBLE SWING JOINT DETAIL

SHEET NO.
LD-16

SECTION NO: 86028
S.R. NO(S): 834 (Sample Rd.)
COUNTY: Broward
FM NO.(S): 421656-1-52-01

EXHIBIT C

MAINTENANCE PLAN

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

Dated: February 11. 2010

MAINTENANCE PLAN
Landscape Improvements

Project State Road No(s):	**834**
Project Limits:	**From west of NW 54 Ave. (M.P. 3.221) to east of Tradewinds Park Road (M.P. 4.763)**
FM No(s):	**421656-1-52-01**
Maintaining Agency:	**City of Coconut Creek**
RLA of Record:	**Ken Gardner #1569**
Date:	**February 11, 2010**

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 shall be maintained in such a manner as to prevent any potential tripping hazards and protect damage to the pavers. 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 become damaged, they shall be replaced with the same type and specification as existing.

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

II.Specific Project Site Maintenance Requirements and Recommendations:
None

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: 86028
S.R. NO(S): 834 (Sample Rd.)
COUNTY: Broward
FM NO.(S): 421656-1-52-01

EXHIBIT D

PROJECT COST

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

Dated: 1/7/2010

I. APPROXIMATE PROJECT COST: $ 72,283.71

SR 834 (Sample Road) Cost Estimate				
FM# 421656-1-52-01	1/7/2010			
ITEM	QTY.	UNIT	UNIT COST	TOTAL COST
Removal and disposal of Sabal Palms	13	ea.	$ 200.00	$ 2,600.00
Removal and disposal of Solitaire Palms	2	ea.	$ 150.00	$ 300.00
Removal and disposal of Medjool Palm	1	ea.	$ 450.00	$ 450.00
Clearing and Grubbing				$ 5,000.00
Medjool Date Palm	1	ea.	$ 8,000.00	$ 8,000.00
St. Augustine 'Floratam'	355	s.f.	$ 0.30	$ 106.50
Dwarf Variegated Oyster Plant	7085	ea.	$ 4.60	$ 32,591.00
Irrigation Heads (incl. laterals & fittings)	14	ea.	$ 35.00	$ 490.00
			TOTAL COST	$ 65,309.40
General Contractor Mark up (15%)				$ 6,974.31
			GRAND TOTAL	$ 72,283.71

SECTION NO: 86039000
S.R. NO(S): 814 (Atlantic Blvd)
COUNTY: Broward
FM NO.(S): 426010-1-58-01
426011-1-58-01

**DISTRICT FOUR (4) AMENDMENT # THREE (3)
TO STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION AND
THE CITY OF COCONUT CREEK LANDSCAPE
INCLUSIVE MEMORANDUM OF AGREEMENT**

This is Amendment Number Three to the Agreement dated May 27, 2009, made and entered into this 23 day of May 2011 by and between the State of Florida Department of Transportation hereinafter called the "DEPARTMENT" and the City of Coconut Creek, a political subdivision of the State of Florida, hereinafter called the "AGENCY".

WHEREAS, the parties entered into the Inclusive Maintenance Agreement dated May 27, 2009, for the purpose of maintaining the landscape improvements by the AGENCY on various State Roads including State Road 814 (Atlantic Blvd); and,

WHEREAS, the DEPARTMENT and AGENCY have agreed to add additional landscape improvements to be installed on State Road 814 (Atlantic Blvd) in accordance with the above referenced Agreement;

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

1. Pursuant to paragraph 6 of the Inclusive Agreement for State Road 814 (Atlantic Blvd) dated May 27, 2009, the AGENCY has decided to construct additional landscape improvements or to modify an improvement located as indicated in Exhibit A, on SR 814 (Atlantic Blvd) from 1,750ft west of Lyons Road (M.P. 0.899) to Florida's Turnpike (M.P. 1.715) in accordance with the plans attached as Exhibit B.

2. The AGENCY has received two (2) grants on SR 814 (Atlantic Blvd), one for two hundred thousand dollars and no cents ($200,000.00) from 1750ft west of Lyons Road (M.P. 0.899) to Lyons Road (M.P. 1.230); and another for three hundred thousand dollars and no cents ($300,000) from Lyons Road (M.P. 1.230) to Florida's Turnpike (M.P. 1.715).

3. The AGENCY shall agree to install landscape as provided in Exhibit B; and maintain the landscape improvements in accordance with the Inclusive Maintenance Agreement dated May 27, 2009 and as provided in the attached Exhibit C, Maintenance Plan.

4. AGENCY shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of;

(1) All persons employed by the AGENCY during the term of the Contract to perform employments duties within Florida; and

(2) All persons, including subcontractors, assigned by the AGENCY to perform work pursuant to the contract with the DEPARTMENT.

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

Exhibits

Exhibit A – Landscape Improvements Location & Maintenance Boundaries
Exhibit B – Landscape Improvements Plans
Exhibit C – Maintenance Plan for Landscape Improvements
Exhibit D – Approximate Cost for Landscape Improvements

In Witness whereof, the parties hereto have executed with this Amendment effective the 23 day May year written and approved.

CITY OF COCONUT CREEK

BY:

City Manager

State of Florida
Department of Transportation

BY:

Director of Transportation Development

STATE OF FLORIDA • DEPARTMENT OF TRANSPORTATION

ATTEST:

City Clerk — Date 5/16/11

District General Counsel — Date 5/23/2011

Agency Attorney — Date 5/16/11

NANCY A. COUSINS

SECTION NO: 86039000
S.R. NO(S): 814 (Atlantic Blvd)
COUNTY: Broward
FM NO.(S): 426010-1-58-01
426011-1-58-01

EXHIBIT A

PROJECT LOCATION AND LANDSCAPE IMPROVEMENTS MAINTENANCE BOUNDARIES

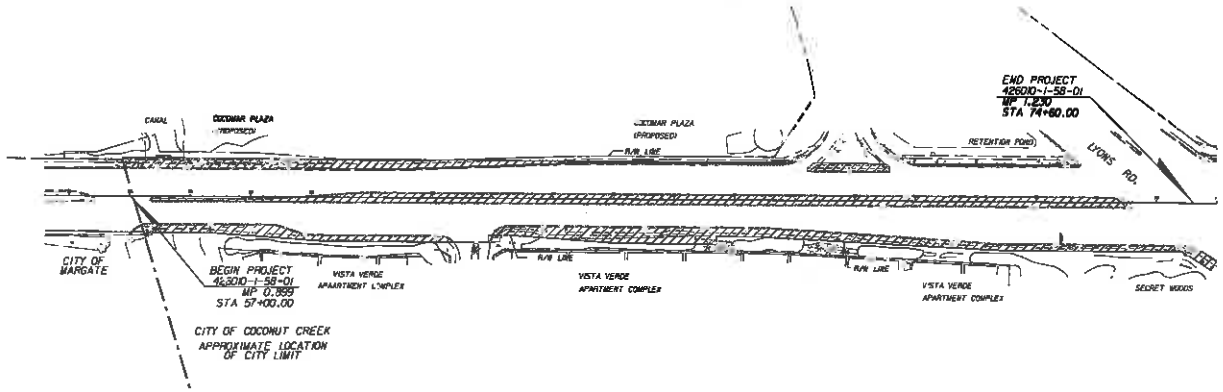
I. GRANT PROJECT LOCATION(S) INCLUDE THE FOLLOWING:

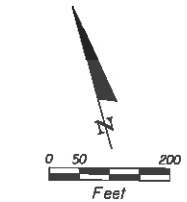
State Road 814 (Atlantic Blvd) from 1,750ft west of Lyons Road (M.P. 0.899) to Florida's Turnpike (M.P. 1.715)

II. INCLUSIVE LIMITS OF LANDSCAPE IMPROVEMENTS MAINTENANCE FOR SR 814 (ATLANTIC BLVD):

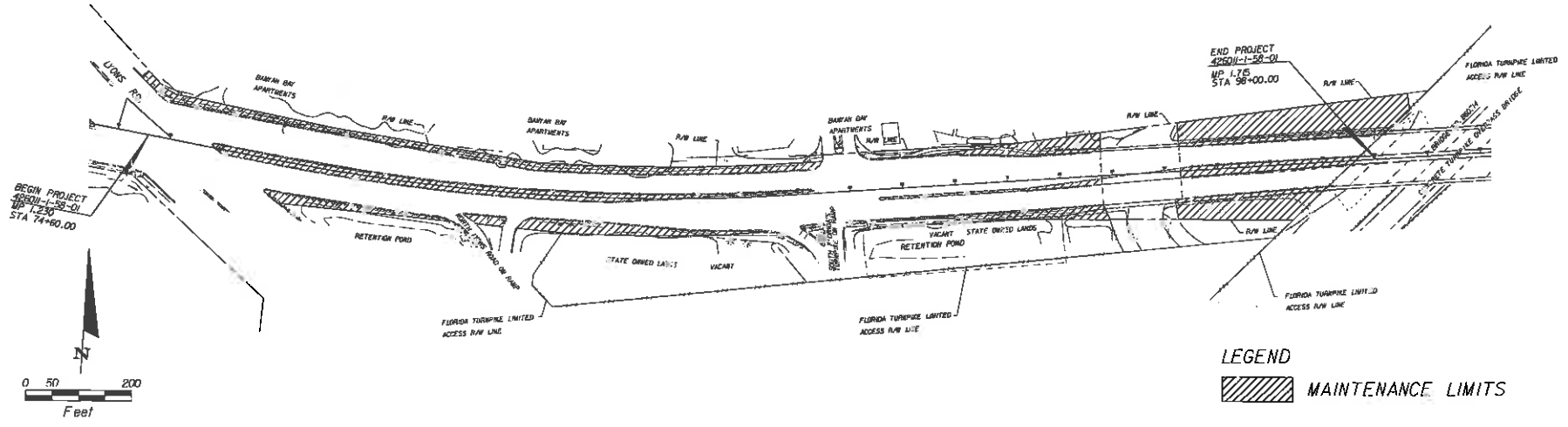
State Road 814 (Atlantic Blvd) from East Hemingway Court (M.P. 0.753) to Florida's Turnpike (M.P. 1.715)

III. LANDSCAPE IMPROVEMENTS MAINTENANCE MAP FOR THIS GRANT PROJECT: SEE ATTACHED





FM# 426010-1-58-01



FM# 426011-1-58-01

LEGEND

MAINTENANCE LIMITS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MILLER LEGG
5747 North Andrews Way · Fort Lauderdale, Florida · 33309-2364
954-486-7800 · Fax: 954-486-3664 · www.millerlegg.com
Cert. of Auth.: LC0000337 · L.A. of Record: Brian R. Shaw LA-6666670

CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
814	BROWARD	10-00249

MAINTENANCE MAP

SHEET NO. A

sparez 4/3/2011 9:00:35 AM V:\Projects\2010\10-00249 - SR-814 Atlantic Blvd LA Svcs\426010-1-58-01\landscape\plan\LDsTmp.dgn

SECTION NO: 86039000
S.R. NO(S): 814 (Atlantic Blvd)
COUNTY: Broward
FM NO.(S): 426010-1-58-01
426011-1-58-01

EXHIBIT B

LANDSCAPE IMPROVEMENT PLANS

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

Please see attached plans prepared by: Miller Legg and Associates
Brian Shore, RLA

Dated: March 8, 2011

CONTRACT PLANS

BROWARD COUNTY

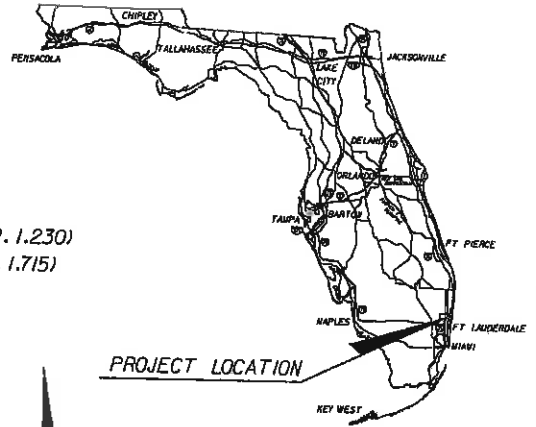
STATE ROAD NO. 814 / ATLANTIC BOULEVARD

FM 426010-1-58-01 FROM WEST OF LYONS ROAD (M.P. 0.899) TO LYONS ROAD (M.P. 1.230)
FM 426011-1-58-01 FROM LYONS ROAD (M.P. 1.230) TO FLORIDA'S TURNPIKE (M.P. 1.715)

LANDSCAPE BEAUTIFICATION PROJECT

INDEX OF PROJECT PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2	TABULATION OF QUANTITIES/PLANT SCHEDULE
LD-3	LANDSCAPE GENERAL NOTES
LD-4 and LD-6	HARDSCAPE DETAILS
LD-7 and LD-8	LANDSCAPE DETAILS
LD-9 thru LD-15	LANDSCAPE PLAN
LD-16 and LD-20	IRRIGATION NOTES
LD-21 thru LD-27	IRRIGATION PLAN
LD-28	TRAFFIC CONTROL NOTES
LD-29 and LD-31	TRAFFIC CONTROL DETAIL



CORAL SPRINGS

R-41-E
R-42-E

END PROJECT
FM 426011-1-58-01
MP 1.715 STA. 98+00.00

BEGIN PROJECT
FM 426011-1-58-01
MP 1.230 STA. 74.60.00

TAMARAC

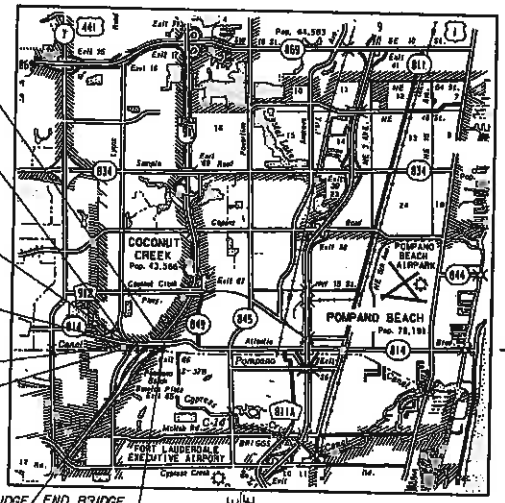
END PROJECT
FM 426010-1-58-01
MP 1.230 STA. 74+60.00

BEGIN PROJECT
FM 426010-1-58-01
MP 0.899 STA. 57+00.00

T-48-S
T-49-S

BEGIN BRIDGE
Sta. 92+79.72

END BRIDGE
Sta. 94+29.54



POMPANO BEACH

T-48-S
T-49-S

BEGIN BRIDGE
Sta. 98+03.00

END BRIDGE
Sta. 102+92.35

R-41-E
R-42-E

LAUDERDALE LAKES

PROJECT LENGTH: 0.816 MILES

N

0 1 2
Miles

City of Coconut Creek
4800 West Copans Road
954-973-6770 · Fax: 954-973-6794
www.coconutcreekgov.net

Mayor: Lisa K. Aronson
Vice Mayor: Lou Sarbone
Commissioner: Marilyn Gerber
Commissioner: Becky Tooley
Commissioner: Mikkie Belvedere
City Manager: David J. Rivera

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2010,
AND STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2010,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 01-01-11
For design standard modifications click on "Design Standards" at the following web site:
http://www.dot.state.fl.us/rddesign/DesignStandards/Standards.shtm

WESTERN HALF FM# 426010-1-58-01
EASTERN HALF FM# 426011-1-58-01

CITY OF COCONUT CREEK PROJECT MANAGER: PAMELA STANTON, RLA
MILLER LEGG PROJECT MANAGER: BRIAN R. SHORE, RLA

PLANS PREPARED BY:
MILLER LEGG
5747 N Andrews Way · Fort Lauderdale, Florida · 33309-2364
954-436-7000 · Fax: 954-436-8664 · www.millerlegg.com
Certification of Authorization: LC0000937

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

DESIGN SPEED: 45 MPH

Brian Shore 3-8-11

SHEET NO.
LD-1

TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAX. MAINTAINED SIZE	SPACING	REMARKS	NATIVE	DROUGHT TOLERANCE	UNIT	SHEET NUMBERS														TOTAL THIS SHEET	
												LD-8		LD-9		LD-10		LD-11		LD-12		LD-13		LD-14			
107-1 LITTER REMOVAL AND DISPOSAL												PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
1			Litter Removal and Disposal								AC	0.11		0.22		0.15		0.17		0.13		0.02		0.13		0.93	
107-2 MOWING																											
1			Mowing								AC	0.11		0.22		0.15		0.17		0.13		0.02		0.13		0.93	
285-70 LIME ROCK BASE																											
1			New concrete base								SY											14		33		47	
522-2 6" SIDEWALK																											
1			New concrete								SY											14		33		47	
523-1-2 PATTERN CONCRETE																											
1			pattern and color								SY											14		33		47	
2			Overlay treatment								SY																
526-1-1 ARCHITECTURAL PAVERS (CONCRETE PAVERS)																											
1			Architectural pavers								SY	75.9								40		126		285		538	
570-1 PERFORMANCE TURF																											
1		SOD	Stenotaphrum secundatum	St. Augustine Sod							SY	127.2		16.7		51		42		7				51		325	
580-1-1 SHRUBS & GROUND COVERS (SMALL)																											
1	SMALL	CHR	Chrysobalanus icaco 'Horizontal'	Horizontal Cocoplum	MIN. 18"x24", 3 GAL. Bush Form	" 18"	24" O.C.	FULL	N	VERY	AC			0.12		0.10		0.11		0.09				0.05		0.47	
2	SMALL	DIA	Dianella Tasmanica	Blueberry Flax Lily	MIN. 24"x20", 1 - 3 GAL	Natural Size	24" O.C.	FULL	N	VERY	EA	210															
3	SMALL	JUN	Juniperus chinensis 'Parsoni'	Parsons Juniper	min. 24" x 24", 3 Gal.	" 18"	2.1"OC	FULL	Y	MODERATE	EA	90				45		45		30		20		105		405	
4	SMALL	IVS	Ilex vomitoria 'Stokes Dwarf'	Stokes Dwarf Yaupon	MIN. 18"x20", 1 - 3 GAL	" 18"	24"OC	FULL	Y	MODERATE	EA	145				70		85		105		60		102		239	
5	SMALL	MUH	Muhlenbergia capillaris	Muhly Grass	MIN. 30"x24", 1 - 3 GAL.	Natural Size	24" O.C.	FULL	Y	VERY	EA	30		95		5				65						368	
6	SMALL	TRI	Tripsacum dactyloides	Fakahatchee Grass	MIN. 30"x24", 1 - 3 GAL.	Natural Size	24" O.C.	FULL	Y	VERY	EA			65		66		65								196	
7			Additional Mulch		3" Mulch area around Sabal Palm Bosque						SY	25		131		58		59		53		53				135	
580-1-2 TREES & PALMS (LARGE)																										377	
1	LARGE	JM	Jacaranda mimosifolia	Jacaranda	MIN. 16' Ht. x 7' spr., 4" Cal.	Natural Size	As Shown	B&B, Full	N	VERY	EA	4				3		4						5		16	
2	LARGE	LI	Lagerstroemia indica'Muskogee'	Crape Myrtle	MIN. 14' ht. x 7' spr., 4" CT Multi	Natural Size	As Shown	B&B, Full	N	VERY	EA	6		22						14						42	
3	LARGE	QV	Quercus virginiana	Live Oak	MIN. 9" Cal, 26'-30' Ht, 15' spr., 5' CT	Natural Size	As Shown	B&B, Full	Y	VERY	EA			8		4		4		4						20	
PALMS																											
4	LARGE	SP	Sabal palmetto	Sabal Palm	MIN. 14' CT, 14'-20' O.A.H., Straight with Boots	Natural Size	As Shown	B&B, Full	Y	MODERATE	EA			14		14		14								42	

NOTE: * MAX MAINTAINED SIZE WITHIN INDEX 546 SIGHTLINE TO BE 18", NON-SIGHTLINE AREAS MAX MAINTAINED SIZE TO BE NATURAL

Pay Items:

101-1: MOBILIZATION - Includes all the cost of all activities associated with preparatory work and operations in mobilizing for beginning work on the project.

102-1: MAINTENANCE OF TRAFFIC - Includes all the cost of all activities associated with but not limited to the maintenance /replacement of existing signs during construction, workzone signs, arrow panels, off-duty officer, barricades, dust control, and operations for maintaining traffic flow.

107-1: LITTER REMOVAL - Includes all activities associated with litter removal within proposed landscape areas as shown in landscape plans and notes.

107-2: MOWING - Includes all activities associated with mowing in medians within project limits as shown in landscape plans and notes.

110-1-1: CLEARING AND GRUBBING - Includes all Clearing and Grubbing activities associated within proposed project limits as shown in landscape plans and notes.

285-701: LIME ROCK BASE - Includes installation of base material as shown in plans and details.

522-2: 6" SIDEWALK - Includes installation of concrete sidewalk as shown in plans and details.

523-1-2: PATTERN CONCRETE - Includes installation of patterned concrete as shown in plans and details.

570-1: PERFORMANCE TURF - Includes installation and establishment of sod within project limits as outlined within general notes, plans. Sod to be St. Augustine Sod (Stenotaphrum secundatum).

580-1-1: LANDSCAPE SMALL - Includes all activities associated with installation and maintenance of landscape as shown in landscape plans and notes. Mowing to be done twice a month or when sod is greater than 6".

580-1-2: LANDSCAPE LARGE - Includes all activities associated with installation and maintenance of landscape as shown in landscape plans and notes. Mowing to be done twice a month or when sod is greater than 6".

590-70: IRRIGATION - Includes all activities associated with installation and maintenance of irrigation as shown in irrigation plans and notes.

Pam Blue 3-8-11

REVISIONS						
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK			TABULATION OF QUANTITIES / PLANT SCHEDULE	SHEET NO.
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID		
814	BROWARD	10-00249		LD-2

PROJECT GENERAL NOTES:

1. The Contractor shall visit the site prior to placing his bid to assess the amount of planting required for the general conditions as they relate to traffic control, access to the site and other challenges of the Project.

2. All base survey sketch information shown per FDOT Project FM# 4P3002-1-52 is the best available information available at the time of preparation of plans. The Contractor shall notify the City of any discrepancies in the information provided. Base map is a sketch of corridor and data is not geographically located within any survey datums. Features such as right of way lines, and utilities, have been compiled and incorporated from as-built data obtained from various sources. Geometric survey of median has been conducted to aide contractor in construction of hardscape features. Contractor to use back of curb dimensions as reference. Baseline shown on plans is provided for reference only and is an assumed centerline of corridor.

3. All Public land corners and monuments within the limits of construction are to be protected by Contractor as follows: Corners and monuments in conflict with the work and in danger of being damaged, destroyed or covered shall be properly referenced by a registered land surveyor in accordance with the minimum technical standards of the Florida Board of Professional Land Surveyor prior to beginning work at that site. The Contractor shall retain the land surveyor to reference, and restore upon completion of the work, all such corners and monuments and shall furnish to Florida Department of Transportation (FDOT) a signed and sealed copy of the Land Surveyor's reference drawing.

4. The Contractor shall comply with all state codes and ordinances. Contractor shall be responsible for obtaining all applicable permits unless otherwise directed by the City.

6. The Contractor shall submit a an inventory list of the existing signs including photos to the City prior to mobilization. Any existing signs damaged by the contractor during construction, shall be replaced by the Contractor at no additional cost to the City or FDOT.

7. Contractor is to notify the City/FDOT, who shall notify the State Permits Office at 850-488-4961 at least 7 calendar days in advance of a MOT Set-up that will impact Overweight/Overheight Vehicles.

8. Contractor shall remove and dispose of existing sod and surplus materials off-site or as directed by the City. All existing soil within the medians that is removed for hardscape treatments or removed for tree installation shall be re-used in the formation of the proposed "wave" land-forms.

9. CLEARING and GRUBBING:
a. SOD: includes removal of existing sod within medians and areas where proposed plant material is specified within the right-of-way unless otherwise noted.

9. IRRIGATION: includes protection of existing irrigation systems within the right of way. Contractor shall be responsible for repair of damaged systems.

10. SIGHT VISIBILITY CLEAR ZONES: on the main travel/through lanes for this project are based on a design speed of 45 mph.

ENVIRONMENTAL NOTES:
1. The Contractor shall review environmental requirements of any proposed staging areas with the City and submit to the City and submit to the FDOT District Environmental Permits Coordinator at least seventy-two (72) hours prior to use.

2. Contractor shall submit to City a Stormwater Prevention Pollution Protection Plans (S.W.P.P.P.) to City for review and submittal to appropriate agencies with copies to FDOT.

3. Any material to be stockpiled for periods greater than 24 hours shall be protected by appropriate erosion control devices. No material shall be stockpiled between silt fences and water bodies.

4. All excess material as designated by the City is to be disposed by the Contractor in areas provided by him within 72 hours of being deposited in the construction area and at the Contractor's expense.

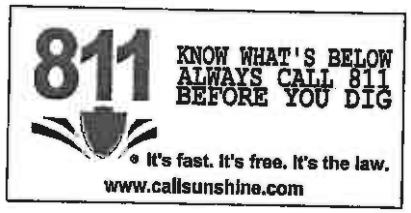
5. The Contractor is responsible for keeping existing and new inlets clean of planting soil, debris, etc. during the construction at no additional cost to the City. Contractor shall submit plan for protection of inlets and /or erosion during construction.

6. If necessary the Contractor shall use a street sweeper (using water) or other equipment capable of controlling and removing dirt or dust. Approval of the use of such equipment is contingent upon its demonstrated ability to do the work.

UTILITIES GENERAL NOTES:
1. Two full business days prior to digging, the Contractor shall call Sunshine State One Call of Florida, telephone number 811, and the utility owner and request utility locations. A Contractor's representative must be present when utility companies locate their facilities.

2. All existing utilities are to remain.

3. Contractor shall explore by hand digging and expose all utilities located within 5' of all proposed trees and palms.



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2. All existing utilities are to remain.

3. Contractor shall explore by hand digging and expose all utilities located within 5' of all proposed trees and palms.

GOVERNING STANDARDS:
Florida Department of Transportation (FDOT) DESIGN STANDARDS and SPECIFICATIONS: Contractor to refer to the following:

1. FDOT Standard Specifications for Road and Bridge construction 2010

2. FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System 2010 (English Units)

3.FDOT 2010 Interim Design Standard (01/01/11)

LANDSCAPE GENERAL NOTES:

1. LANDSCAPE: Installation of plant material shall be performed by a Contractor certified by the Florida Nurserymen, Growers and Landscape Association (FNGLA) as a Certified Landscape Contractor. Any pruning activities of trees and/or palms shall be supervised by a Certified Arborist, as certified by The International Society of Arboriculture (ISA) and licensed in Broward County.

2. SOIL:
a). For Trees and Shrubs and Groundcover beds: Provide a consistent mix consisting of 50% Sand / 40% Muck / 10% Peat for the planting soil mix.
b). For Palms: Provide a consistent mix consisting of 70% Sand / 30% Muck for the planting sod mix.
c). For Sod area: Provide a 6" to 12" veneer / layer of soil consisting of 70% Sand / 30% Peat mix.

LANDSCAPE GENERAL NOTES Continued:

3. SOD:
a). Provide specified species of sod as shown on plans. All existing turf areas within the medians shall be removed. Replace sod within the medians, outside of proposed planting beds, as indicated on plans. Contractor shall include a 6" to 12" layer or veneer of suitable planting soil in the areas within the median that are to be sodded. The soil material and placement of the soil shall be part of the pay item for the sod. Should any new sod be damaged during the course of construction, the Contractor shall be responsible to re-sod the damaged areas and restore the proposed grade. Cost of replacement material shall be included within Mobilization and at the Contractor's expense.
b). All existing areas within swale areas shall remain unless otherwise specified. The Contractor shall be responsible to re-sod any areas damaged by construction activities. Restoration sod (re-sodding damaged areas) shall match the species of the existing/surrounding sod.

4. MULCH: A consistent 3" layer of shredded Grade A mulch or better shall be spread over all planting beds. All mulch beds shall extend to bedline shown on plans. Contractor to submit sample of mulch to City for acceptance.

5. FERTILIZATION: Contractor shall provide at a minimum, one (1) application at time of planting. A schedule of fertilization based upon the Manufacturer's recommended rates shall be submitted by the Contractor at the pre-construction meeting.

AT TIME OF PLANTING: Fertilize with planting tablets 20-10-5 plus minors. Do not place tablets in bottom of hole; tablet shall be 1/3 from the bottom of the rootball.

ESTABLISHMENT PERIOD OF PLANT MATERIAL: Fertilizer for dicot trees, shrubs and ground covers shall be of 6% nitrogen, 6% phosphorus and 6% potassium with minor elements composition analysis. Fertilizer for palms shall be "palm fertilizer" of 13% nitrogen, 3% phosphorous, and 19% of potassium composition analysis with minor elements. Contractor shall apply granular fertilizer at the manufacturer's recommended rates. Contractor reserves the right to modify N-P-K ratio and shall submit product data sheets for review and acceptance prior to any installation of plant material consistent with the above criterias.

6. WATERING: At a minimum, the Contractor shall provide the following recommended watering schedule beginning immediately after installation of plant material. At the pre-construction meeting, the Contractor shall submit a watering schedule based upon the following recommended rates:

All watering applications required during Plant Establishment Period and Warranty Period and it's source shall be included as part of the unit price for each plant material. Contractor shall adjust watering schedule during heavy rain season upon approval by Project Engineer.

7. WARRANTY: Install, establish and maintain landscaping as indicated in the contract documents. Take responsibility for the proper maintenance, survival and condition of all plants for a period of one year after final acceptance in accordance with FDOT Standard Specifications for Road and Bridge Construction Section 580.

8. REPLACEMENT MATERIAL: shall be subject to all the requirements of the FDOT Standard Specifications for Road and Bridge Construction Section 580.

9. MAINTENANCE: Begin maintenance of all plants immediately after each planting as indicated in the contract documents and in accordance with Standard Specifications Section 580.

A. Keep all plants watered, fertilized, mulched, pruned and staked and guyed as necessary to assure specified minimum grade of Florida No. 1 throughout the duration of the project construction period and establishment period.

B. During the establishment period, keep the individual planting locations and planting beds free of litter and undesirable vegetation.

C. Ensure that the plants are maintained so that they are healthy, vigorous, and undamaged throughout the duration of the project construction period and establishment period.

D. For the duration of the establishment period, operate and maintain in good operating condition, all components of any irrigation system installed in compliance with the Contract Documents.

E. During the establishment period, replace any plants that fall below specified minimum grade. Use replacement plants of the same species, size and planting medium as the plant being replaced and as specified in the Contract Documents.

10. The Contractor shall furnish to the City a unit price breakdown for all materials. The City may, at its discretion, add or delete from the materials utilizing the unit price breakdown submitted. This unit price breakdown shall be provided by the Contractor at the Pre-Construction meeting.

11. No plant material will be accepted showing evidence of cable, chain marks, equipment scars, or when the ball of earth surrounding its roots has been cracked, broken or otherwise damaged.

Bowers Shue 3-8-11

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MILLER LEGG
5947 North Andrews Way - Fort Lauderdale, Florida - 33309-2164
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CITY OF COCONUT CREEK			LANDSCAPE GENERAL NOTES	SHEET NO.
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID		
814	BROWARD	10-00249		LD-3

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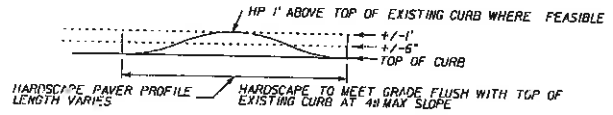

MEDIAN PROFILE DETAIL - HARDSCAPE PAVERS

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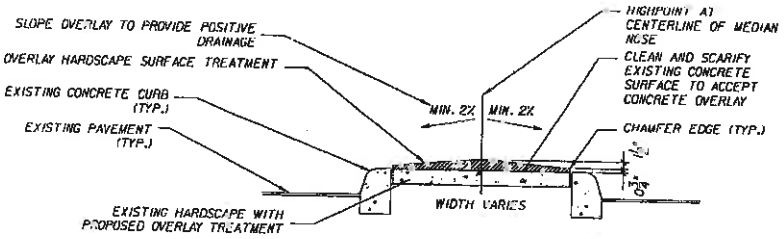
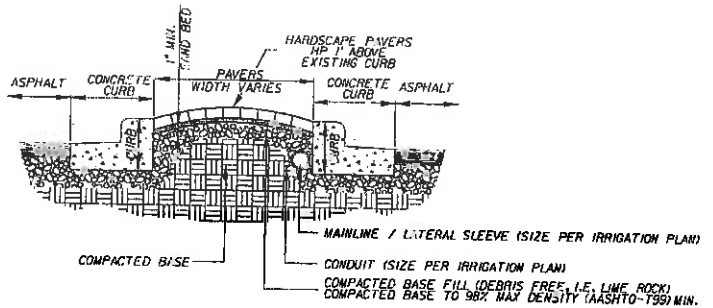
4%



HARDSCAPE OVERLAY

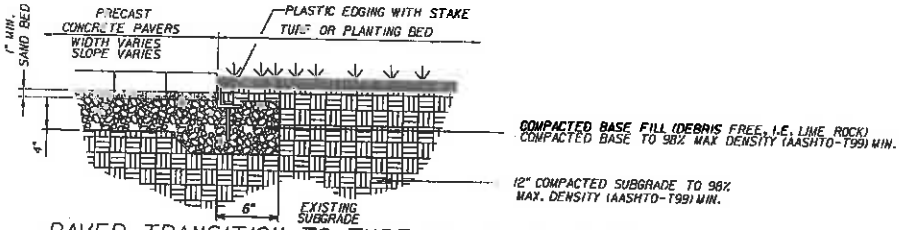
SECTION

NTS



TYPICAL MEDIAN CROSS SECTION - HARDSCAPE PAVERS

N.T.S.



PAVER TRANSITION TO TURF OR PLANTING BED

N.T.S.

3-8-11

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MILLER LEGG
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CITY OF COCONUT CREEK			HARDSCAPE DETAILS	SHEET NO.
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID		
814	BROWARD	10-00249		LD-4

HARDSCAPE PAVER TREATMENT

PLAN NTS

BLUE PAVER: BLUE GLASS IMBEDDED PAVER BY ARTISTIC PAVER OR EQUAL

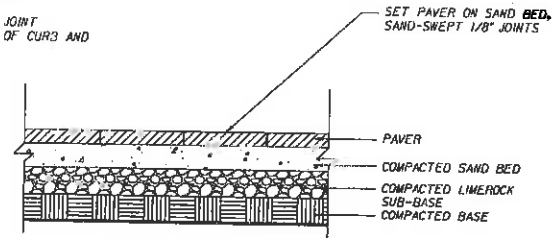
SAND PAVER: SHELL IMBEDDED PAVER BY ARTISTIC PAVER OR EQUAL

SET PAVER(S) ON MORTAR BED ON A 3" COMPACTED SAND BED, SAND-SWEEP JOINTS

PAVER FIELD: 12"X12" SET AT 45-DEG ANGLE TO BACK OF CURB, CUT TO FIT.

1/2" EXPANSION JOINT BETWEEN BACK OF CURB AND PAVER

NOTE: 1. CONTRACTOR TO SUBMIT SAMPLES OF ALL HARDSCAPE MATERIALS FOR REVIEW AND APPROVAL.
2. CONTRACTOR TO PROVIDE 10'X10' MOCK-UPS OF EACH HARDSCAPE TREATMENT FOR REVIEW AND APPROVAL.



PAVER DETAIL
SECTION NTS

OVERLAY TREATMENT: COLOR SURFACE TREATMENT

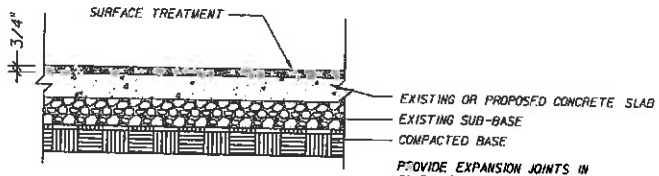
PLAN NTS

INTEGRALLY COLOR CONCRETE SLAB. COLOR BY L.M. SCOFIELD OR EQUAL
COLOR: TAN AND BLUE COLORS TO BE DETERMINED

LIGHT TO MEDIUM SANDBLAST 'WAVE', RIPPLE INTENSITY TO CREATE SAND-LIKE RIPPLES IN CONCRETE

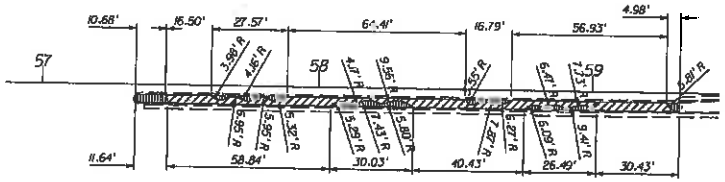
1/2" EXPANSION JOINT BETWEEN BACK OF CURB AND PAVER

REFER TO HARDSCAPE PLANS AND DETAILS FOR SURFACE HARDSCAPE TREATMENT AND LOCATION / LAYOUT

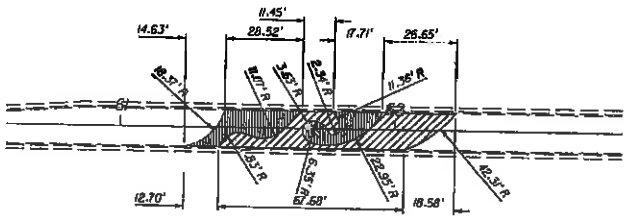


PROVIDE EXPANSION JOINTS IN SLAB 40' O.C., TYPICALLY

HARDSCAPE DETAIL
SECTION NTS



HARDSCAPE DETAIL - STA. 57+00 - 60+00



HARDSCAPE DETAIL - STA. 61+00 - 62+00

HARDSCAPE LEGEND

- BLUE HARDSCAPE COLOR
- SAND HARDSCAPE COLOR

3-8-11

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MILLER LEGG
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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
814	BROWARD	10-00249

HARDSCAPE DETAILS

SHEET NO. LD-5

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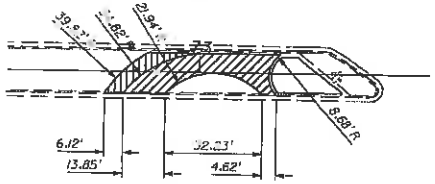
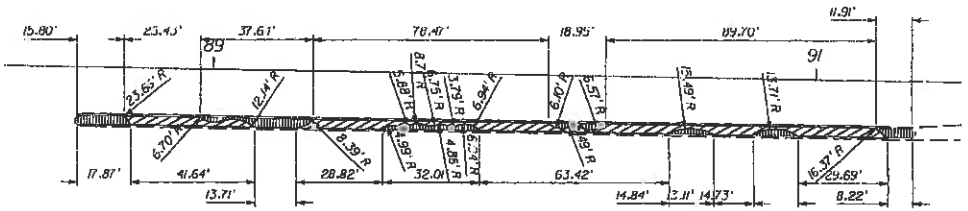
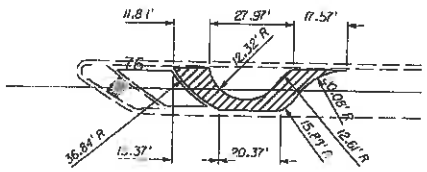


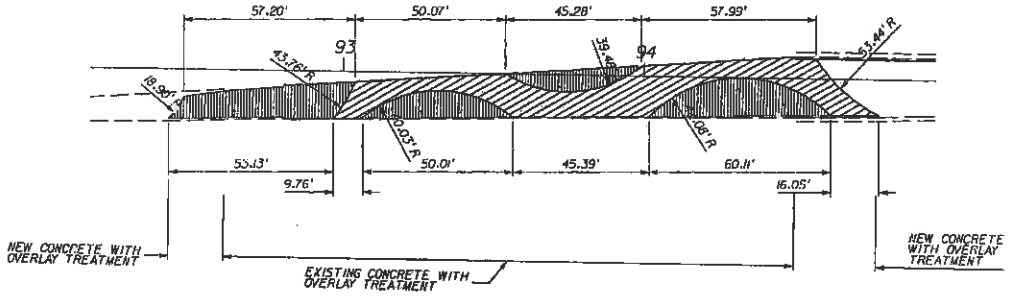
HARDSCAPE DETAIL - STA. 61+00 - 62+00



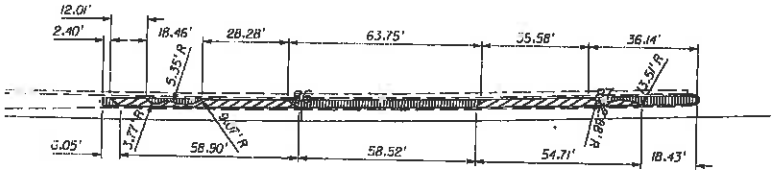
HARDSCAPE DETAIL - STA. 89+00 - 91+00



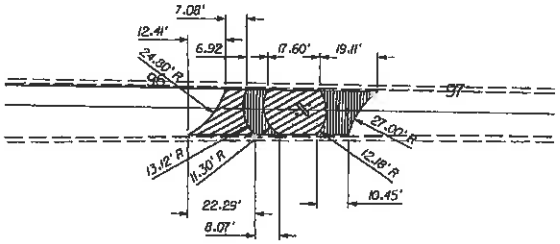
HARDSCAPE DETAIL - STA. 76+00



HARDSCAPE DETAIL - STA. 93+000 - 94+00



HARDSCAPE DETAIL - STA. 86+00 - 87+00



HARDSCAPE DETAIL - STA. 96+000 - 97+00

3-8-11

HARDSCAPE LEGEND

- BLUE HARDSCAPE COLOR
- SAND HARDSCAPE COLOR

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CITY OF COCONUT CREEK			HARDSCAPE DETAILS	SHEET NO.
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID		
814	BROWARD	10-00249		LD-6

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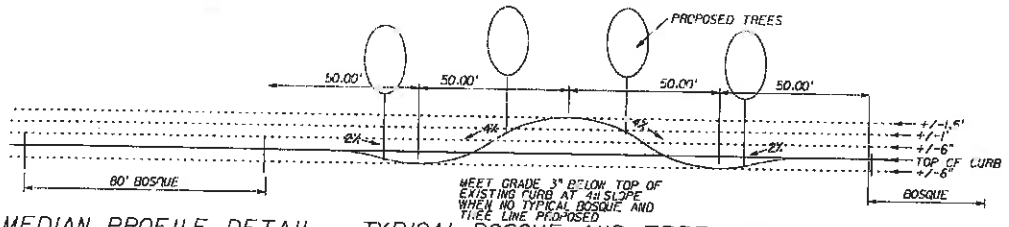

MEDIAN PROFILE DETAIL - TYPICAL BOSQUE AND TREE LINE

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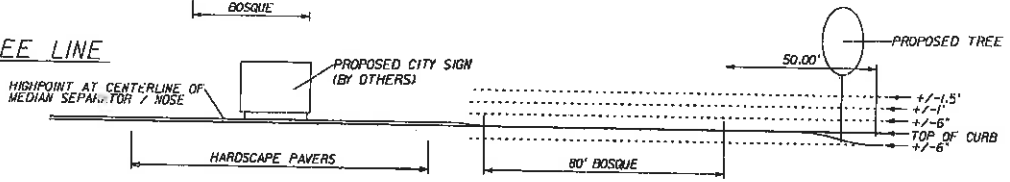
4:1



MEDIAN PROFILE DETAIL - BOSQUE AND CITY SIGN

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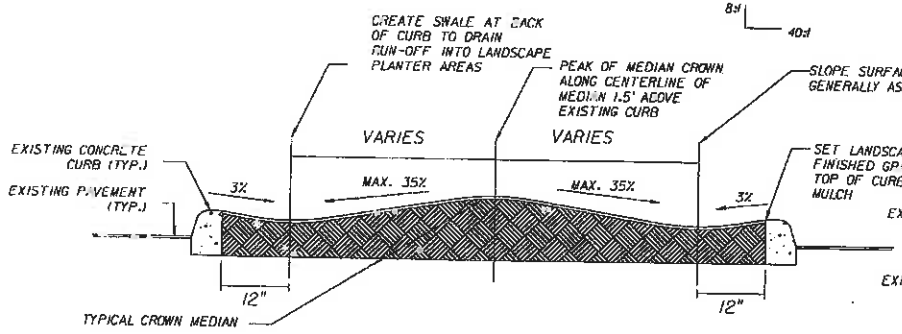

TYPICAL MEDIAN CROSS SECTION - SOD WAVE CREST

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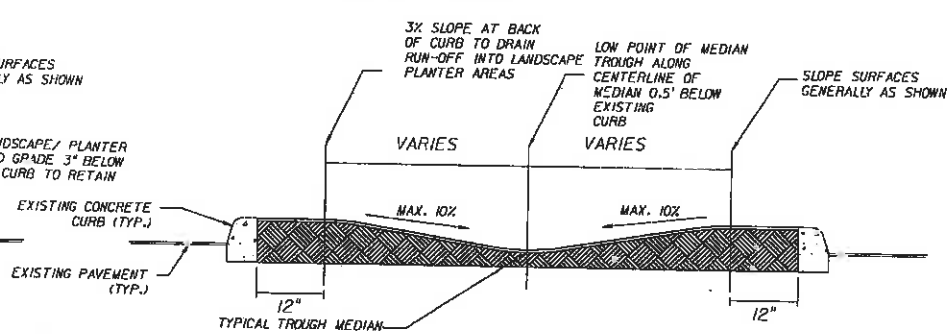

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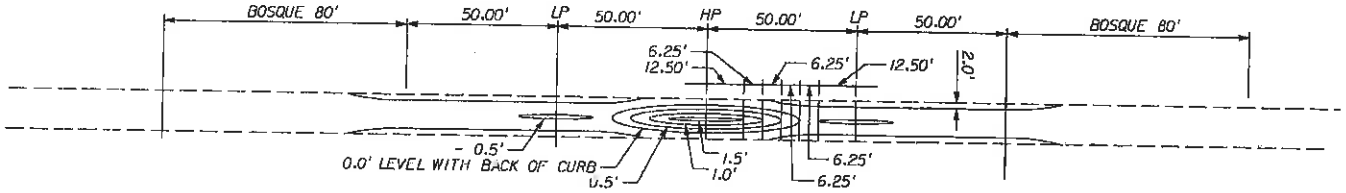

MEDIAN CONTOUR DETAIL - TYPICAL BOSQUE AND TREE LINE

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ROAD NO.	COUNTY	MILLER LEGG PROJECT ID		
814	BROWARD	10-00249		LD-7

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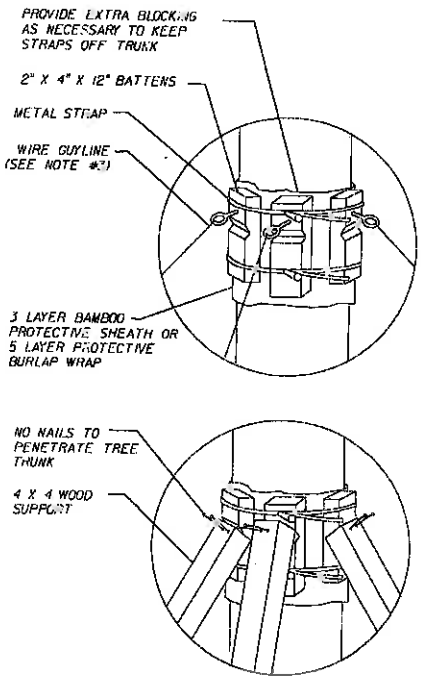

WOOD BATTEN DETAIL

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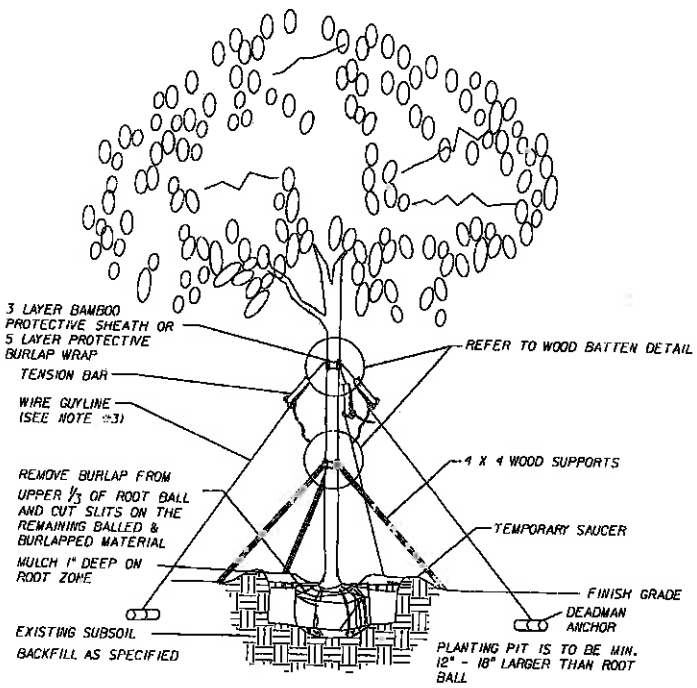

LARGE CALIPER TREE PLANTING DETAIL

N.T.S.

NOTES:
1. Submit shop drawing of staking/support detail.
2. Provide narrative of installation and care of trees during establishment period.
3. Optional tree rootball anchoring system can be specified to supplement bracing of tree. Provide shop drawing as necessary.

Barry R. Burns 3-8-11

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ROAD NO.	COUNTY	MILLER LEGG PROJECT ID		
814	BROWARD	10-00249		LD-8

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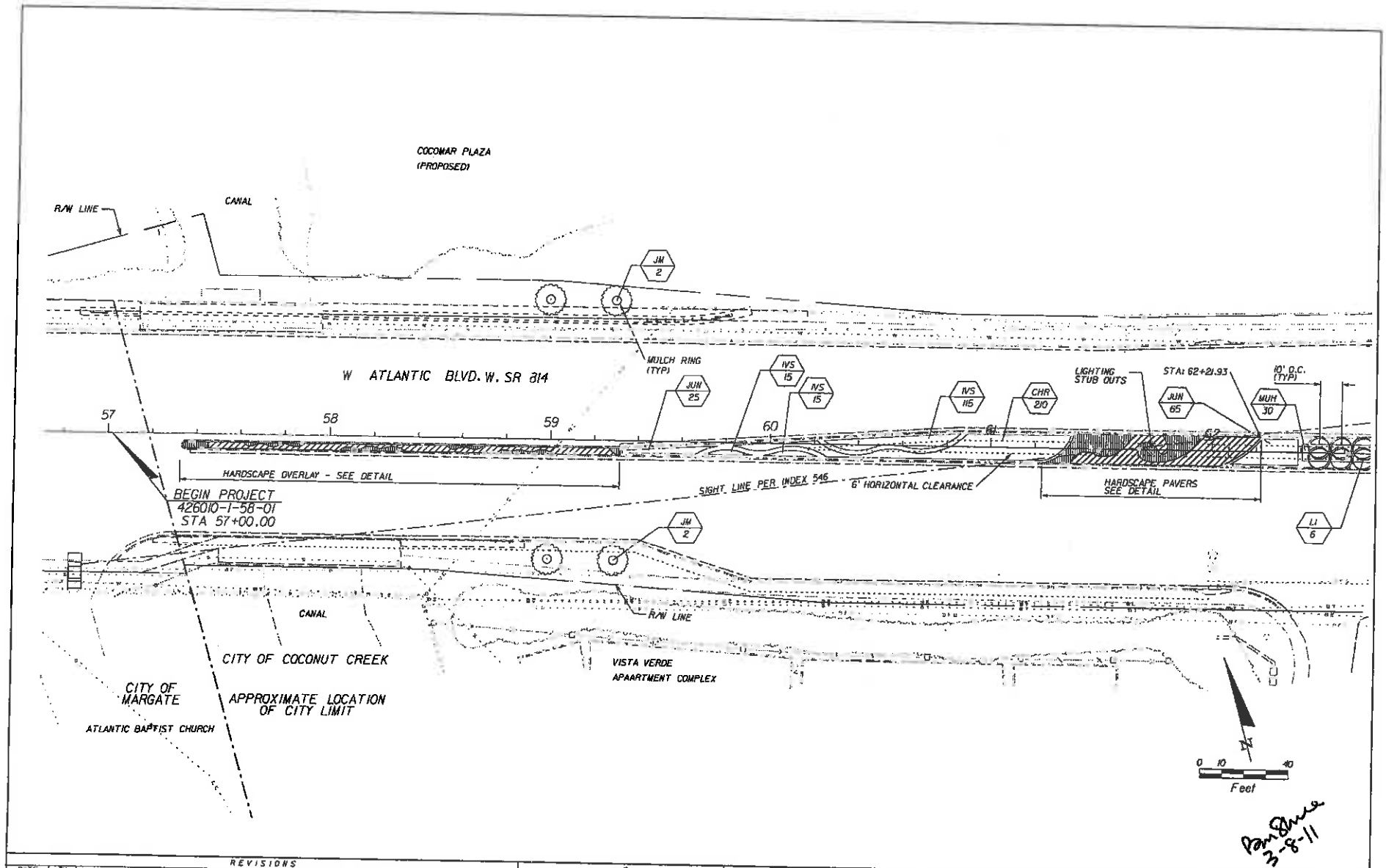

Pam Bruce 3-8-11

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
814	BROWARD	10-00249

LANDSCAPE PLAN

SHEET NO. LD-9

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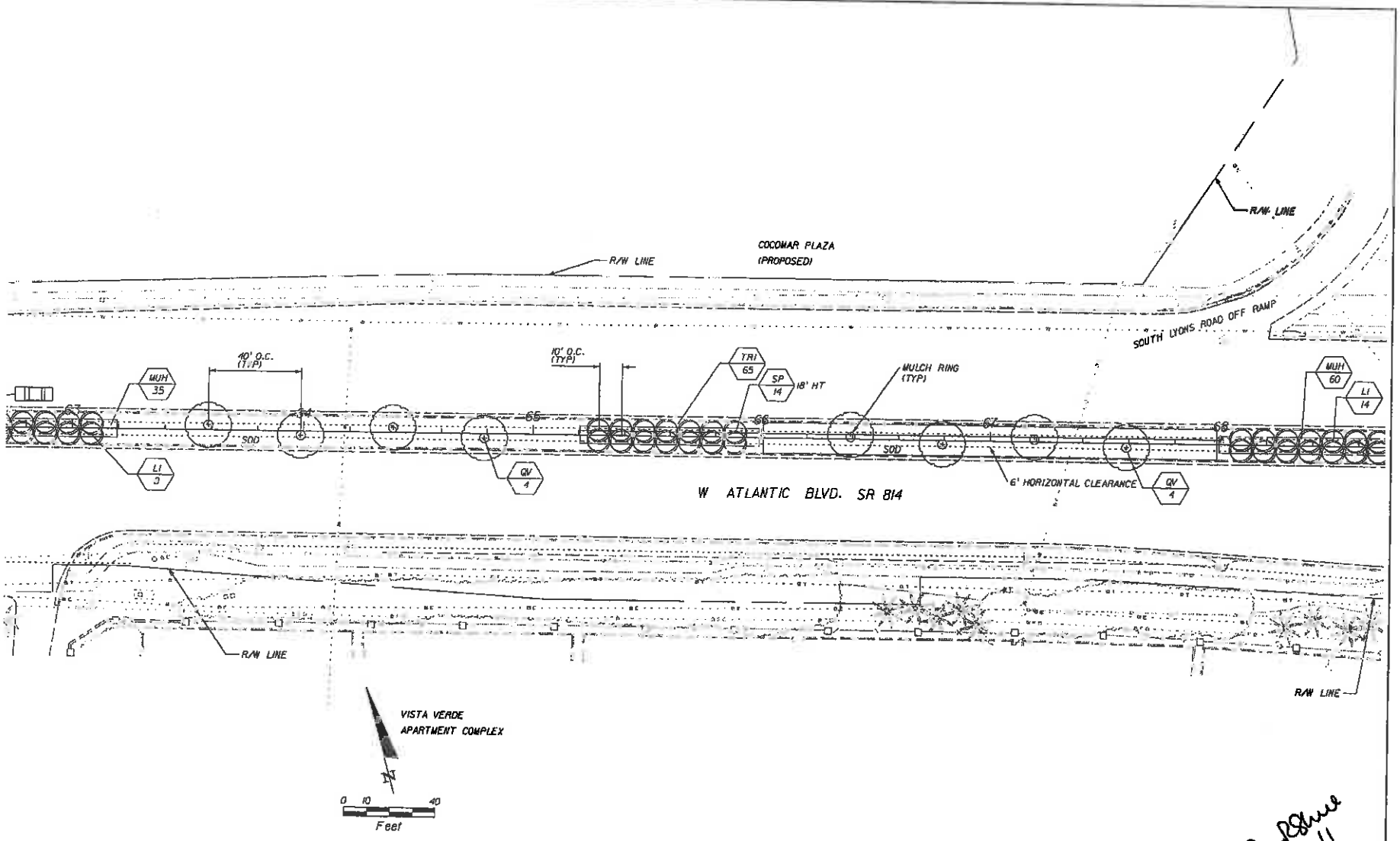

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ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
814	BROWARD	10-00249

LANDSCAPE PLAN

SHEET NO.
LD-10

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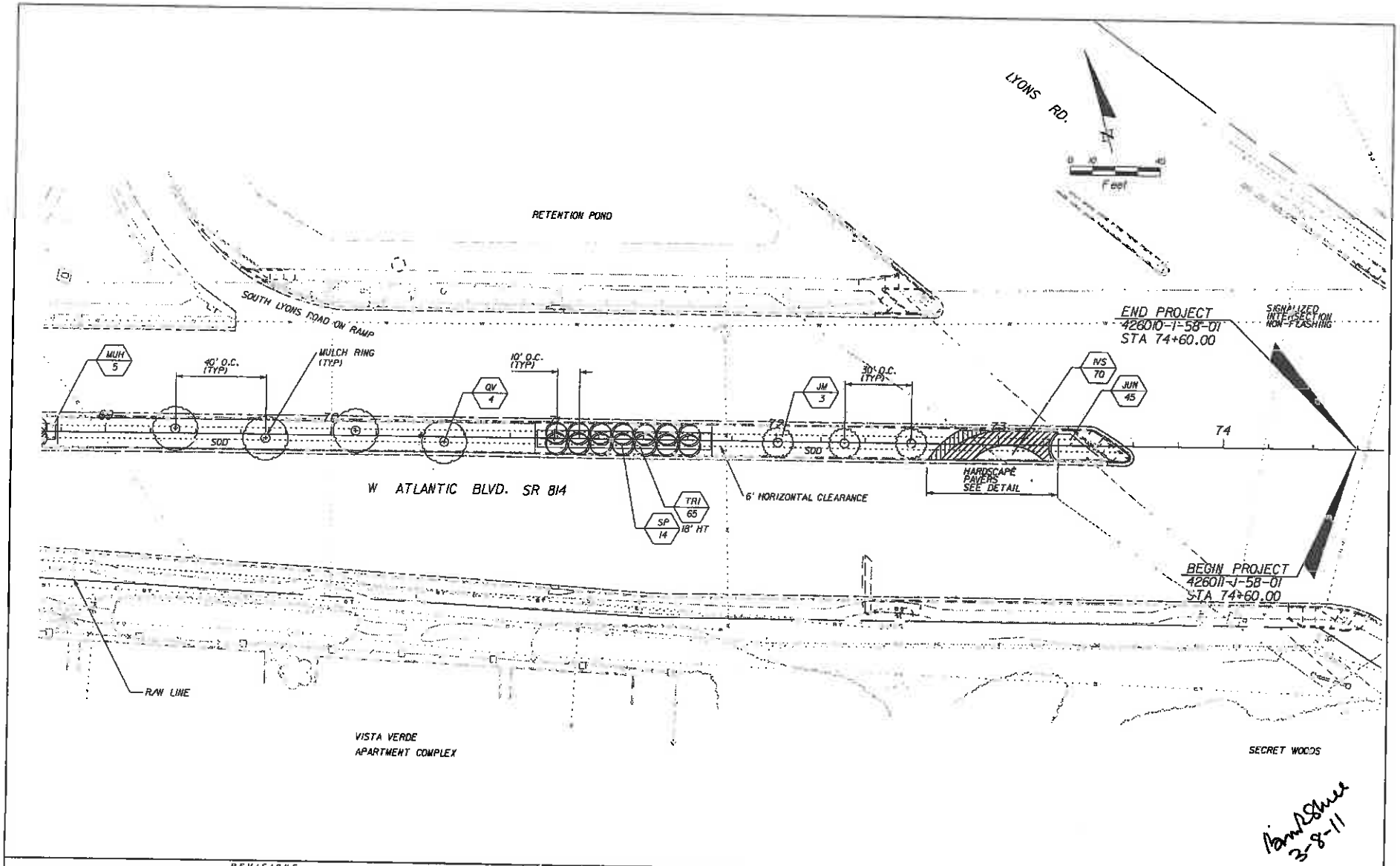

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ROAD NO.	COUNTY	MILLER LEGG PROJECT ID		
814	BROWARD	10-00249		LD-11

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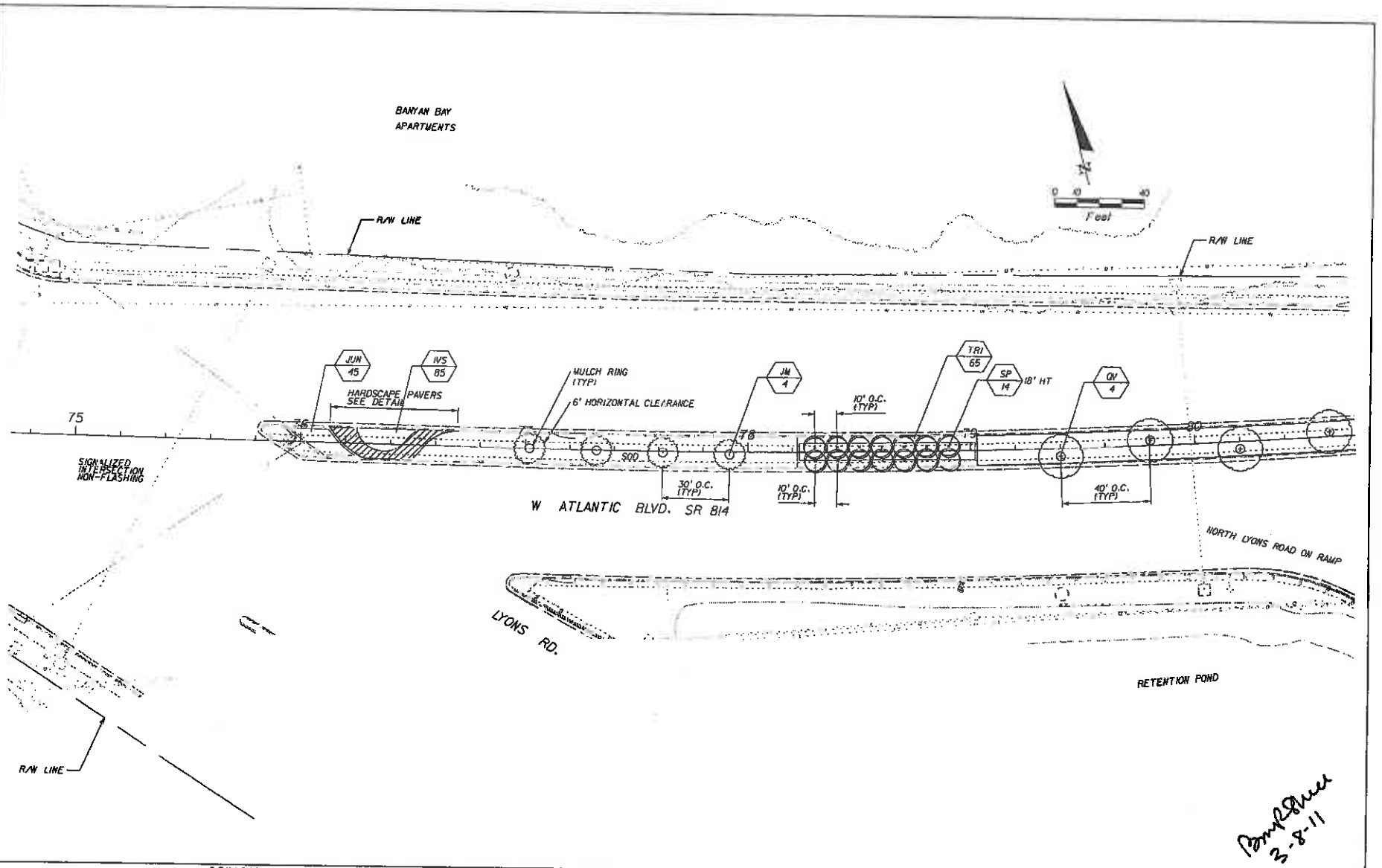

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ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
814	BROWARD	10-00249

LANDSCAPE PLAN

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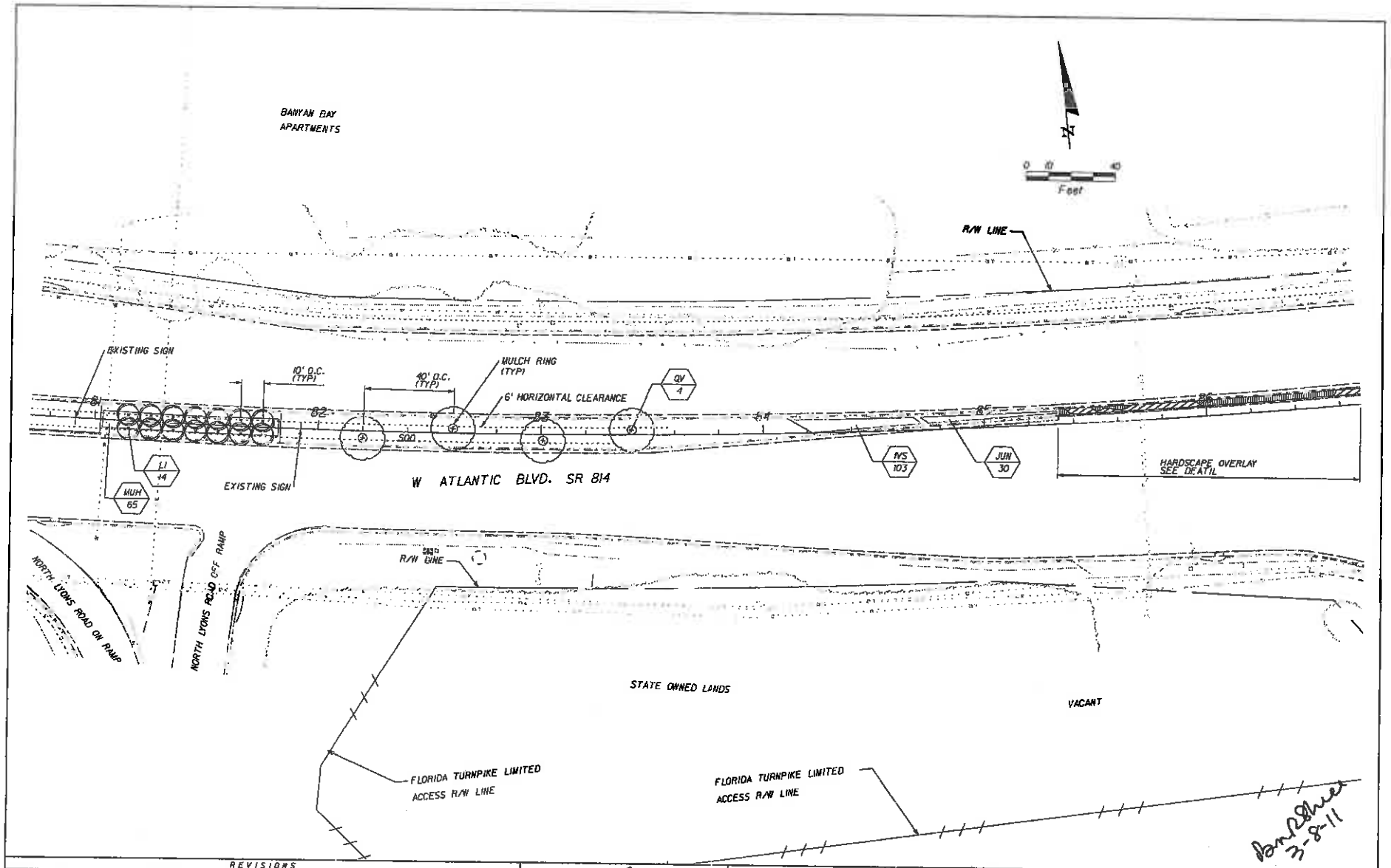

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814	BROWARD	10-00249

LANDSCAPE PLAN

SHEET NO. LD-13

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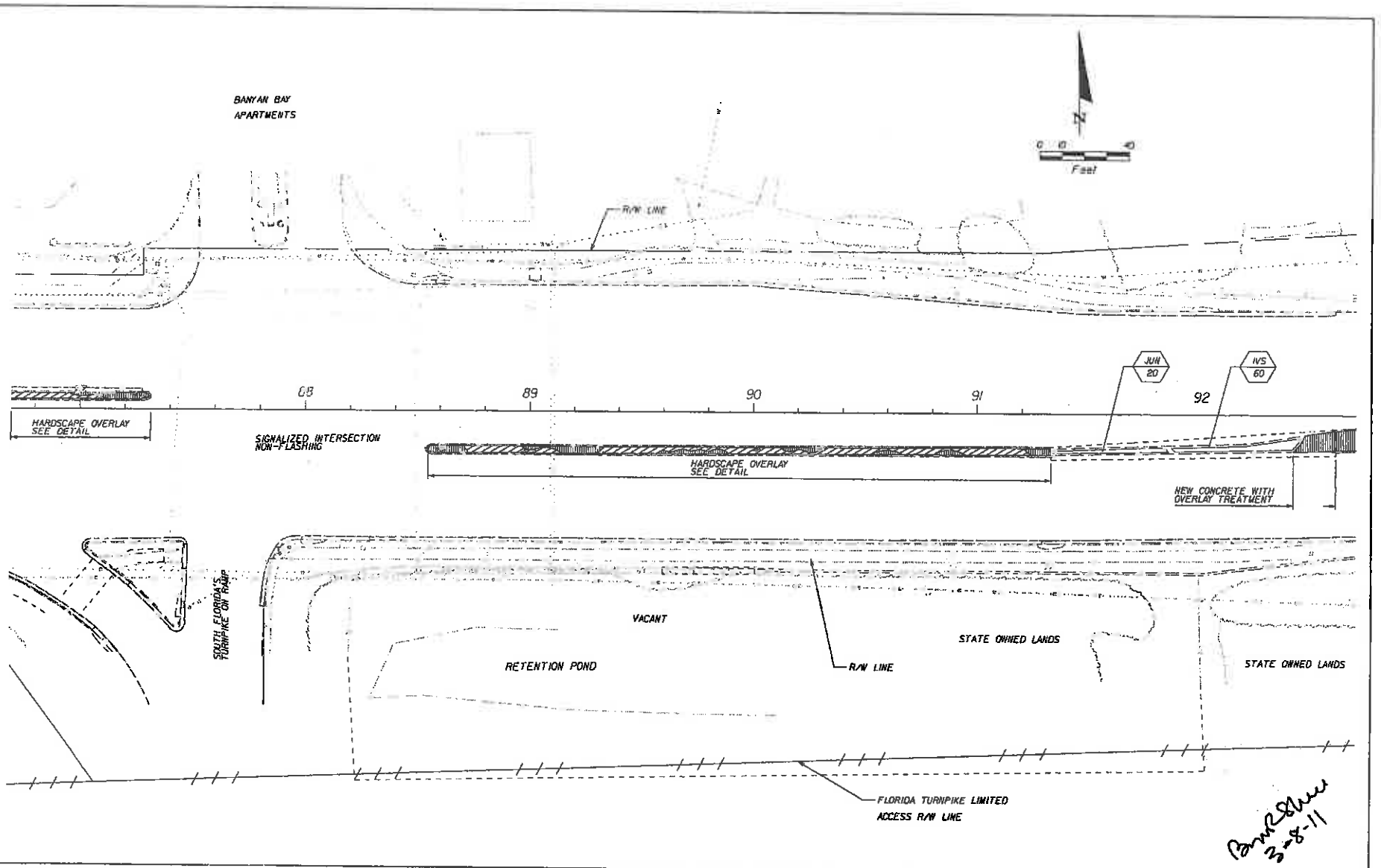

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CITY OF COCONUT CREEK			LANDSCAPE PLAN	SHEET NO.
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID		
814	BROWARD	10-00249		LD-14

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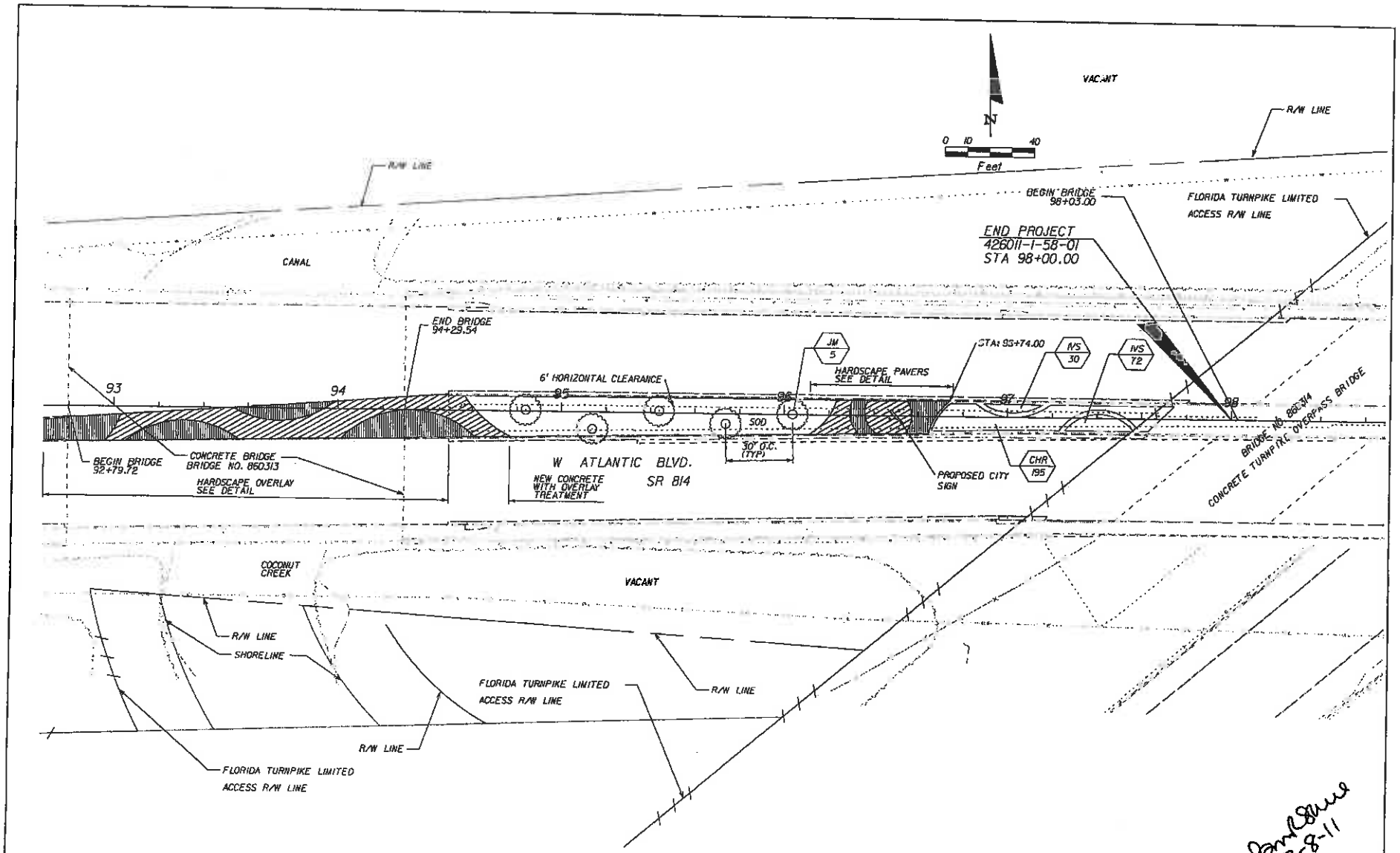

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CITY OF COCONUT CREEK			
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID	
814	BROWARD	10-00249	

LANDSCAPE PLAN

SHEET NO. LD-15

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IRRIGATION GENERAL NOTES and SPECIFICATIONS

The system has been designed to conform with the requirements of all applicable codes. Should any conflict exist, the requirements of the codes shall prevail. It is the responsibility of the owner/installation contractor to insure the entire system is installed according to all applicable laws, rules, regulations and conventions. Irrigation contractor responsible for obtaining all required permits according to federal, state and local laws.

The scope of work is shown on the plans, notes and details. The Irrigation Contractor shall be certified as a CERTIFIED IRRIGATION CONTRACTOR by the Irrigation Association. The certification shall be current and in good standing.

THE WORK

The work specified in this section consists of furnishing all components necessary for the installation, testing, and delivery of a complete, fully functional automatic landscape irrigation system that completely complies with the irrigation plans, specifications, notes, details and all applicable laws, regulations, codes and ordinances. This work shall include, but not be limited to, the providing of all required material (pipe, valves, fittings, controllers, wire, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, back filling, compacting, repair of road surfaces, controller and low voltage feeds to valves, cleanup, maintenance, guarantee and as-built plans.

All irrigated areas shall provide 100% head-to-head coverage from a fully automatic irrigation system with a rain sensor. The rain sensor shall be installed to prevent activation of rain sensor by adjacent heads. All watering procedures shall conform to local codes, as well as this project's regional Water Management District restrictions and regulations. Zones are prioritized first by public safety and then by hydraulic concerns. This sequencing will be a mandatory punch list item. These plans have been designed to satisfy/exceed the Florida Building Code (FBC) Appendix F and the Florida Irrigation Society Standards and Specifications for Turf and Landscape Irrigation Systems, fourth edition.

Contractor shall verify all underground utilities 72 hours prior to commencement of work.

It is the responsibility of the irrigation contractor to familiarize themselves with all grade differences, location of walls, retaining walls, structures and utilities. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstruction, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions, or differences, should be brought to the attention of the owner' authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.

Irrigation Contractor shall repair or replace all items damaged by their work. Irrigation Contractor shall coordinate their work with other Contractors for the location and installation of pipe sleeves and laterals under roadways and paving, etc.

The contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to their operations. All costs involved in disruption of service and repairs due to negligence on the part of the contractor shall be their responsibility.

POINT OF CONNECTION (P.O.C.)

The P.O.C. is a proposed 5HP centrifugal pump station, Hoover Pumping model HCF-5CS-230/3-D,E-24,W,Z or equal, utalizing an well source as specificed on plan details. The P.O.C. must be capable of delivering a minimum of 55 GPM at 50 PSI. Contractor shall verify these minimum conditions can be met prior to the begin irrigation system installation.

If the conditions can not be met, the contractor must notify the designer prior to proceeding with the work. If the Contractor does not do so, the contractor proceeds at their own risk and becomes responsible for any future work required to make the system perform as required.

THE PIPE

Pipe locations shown on the plan are schematic and shall be adjusted in the field. When laying out mainlines place a 18"-24" away from either the back of curb, front of walk, back of walk, or other hardscape to allow for ease in locating and protection from physical damage. Install all lateral pipe near edges of pavement or against buildings whenever possible to allow space for plant root balls. Always install piping inside project properties boundary.

Pipe sizes shall conform to those shown on the plans. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. All damaged / rejected pipe shall be removed from the site at the time of said rejection.

All pipes are to always be placed in planting beds. If it is necessary to have piping under hardscapes, such as roads, pavers, and walks, the pipes must be sleeved using High Density Polyethelene (HDPE) under existing roadways and sidewalks where directional bore is utilized and Sch 40 PVC elsewhere with the sleeve diameter being twice the size of the pipe it is carrying with a minimum sleeve size of 2".

Mainline shall be Class 200 gasketed 'O' ring PVC with ductile iron fittings (sized per plans).

Contractor to ensure all mainline piping is properly restrained using mechanical joint fittings, restraining collars, etc., as and where required. Contractor shall refer to pipe manufacturers recommended installation practices for further direction.

PVC pipe joint compound and primer. slow-drying, heavy duty cement and tinted (purple) primer that is compatible with the cement. The PVC cement shall be Weld-On 2711 grey and the primer shall be Weld-On P70 purple primer, or approved equals.

ELECTRICAL POWER SUPPLY

Electrical supply and phone line for pumps and controllers to be provided by irrigation contractor. Contractor to coordinate with local utilities for the installation of, and connection to, site available power supply's for required electrical components as set forth in the irrigation plans. Provide electrical shop drawings signed and sealed by Electrical Engineer.

All electrical to comply with the National Electrical Code and any, and all, other applicable electrical codes, laws and regulations. A licensed electrician shall perform all electrical hook-ups. Power for the controller shall be 120 volts. Power for pump station shall be 208 volts Phase 3.

WIRING

Irrigation control wire shall be thermoplastic solid copper, single conductor, low voltage irrigation controller wire; suitable for direct burial and continuous operation at rated voltages.

Tape and bundle control wires every 10' and run alongside the mainline. At all turns in direction make a 2' coil of wire. At all valve boxes coil wire around a 3/4" piece of PVC pipe to make a coil using 30 linear inches of wire. Make electrical connections with 3M-DBY,DBR connectors.

Number all wires, using an electrical book of numbers, according to the plans. Number wires in all valve boxes, junction boxes and at the controller.

Wire sized, numbered and colored as follows:

- #14 white for common
- #14 spare black common
- #14 red for hot wires
- #14 spare yellow hot wire

SPARE WIRES

Run spare wires into every RCV valve box. Install a minimum of 2 common and 4 hot wires, in all directions, to every RCV connected to its respective controller.

CONTROLLER GROUNDING

Contractor to utilize 4"X8'X5/8" copper grounding plates, 5/8"X10' copper clad grounding rods, 'One Strike' CAD wells at all connection points, #6 bare copper wire, and earth contact material. Install these and other required components as outlined in the detail. Contractor to verify that the earth to ground resistance does not exceed 10 ohms. Contractor shall provide a written certification, on a licensed electrical contractors letter head, showing the date of the test, controller location, and test results. Each controller shall be so grounded and tested.

LAYOUT

Lay out irrigation system mainlines and lateral lines. Make the necessary adjustments as required to take into account all site obstructions and limitations prior to excavating trenches.

Stake all sprinkler head locations. Adjust location and make the necessary modifications to nozzle types, etc. required to insure 100 % head to head coverage. Refer to the Edge of Pavement Detail on the Irrigation Detail Sheet.

Spray heads shall be installed 4" from sidewalks or curbed roadways and 12" from uncurbed roadways and building foundations. Rotors shall be installed 4" from sidewalks or curbed roadways, 12" from building foundations, and 36" from uncurbed roadways.

Shrub heads shall be installed on 3/4" Sch 40 PVC risers. The risers shall be set at a minimum of 18" off sidewalks, roadway curbing, building foundations, and/or any other hardscaped areas. Shrub heads shall be installed to a standard height of 4" below maintained height of plants and shall be installed within planted masses to be less visible and offer protection. Paint all shrub risers with flat black or forest green paint, unless irrigation system will be installed from a reuse water system with purple PVC risers.

3-8-11

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT NO
814	BROWARD	10-00247

IRRIGATION NOTES

SHEET NO. LD-16

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IRRIGATION GENERAL NOTES and SPECIFICATIONS (CONTINUED)
Locate valves prior to excavation. Insure that their location provides for easy access and that there is no interference with physical structures, plants, trees, poles, etc. Valve boxes must be placed a minimum of 12" and a maximum of 15" from the edge of pavement, curbs, etc. and the top of the box must be 2" above finish grade. No valve boxes shall be installed in turf areas without approval by the irrigation designer - only in shrub beds. Never install in sport field areas.

VALVES
Sequence all valves so that the farthest valve from the P.O.C. operates first and the closest to the P.O.C. operates last. The closest valve to the P.O.C. should be the last valve in the programmed sequence.

Adjust the flow control on each RCV to ensure shut off in 10 seconds after deactivation by the irrigation controller.

VALVE BOXES

Valve boxes shall be standard unless otherwise noted to be traffic rated boxes.

Using 3" high number stencils paint the valve number in white on the lid of each valve box.

EQUIPMENT
Bubblers shall be installed using Sch 80 nipples and shall be placed at the base of trees for low level watering.

All pop-up heads and shrub risers shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing joints.

All sprinkler equipment not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications, and according to local and state laws.

TRENCHING
Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.

Protect existing landscaped areas. Remove and replant any damaged plant material upon job completion. The replacement material shall be of the same genus and species, and of the size of the material it is replacing. The final determination as to what needs to be replaced and the acceptability of the replacement material shall be solely up to the owner or owner's representative.

INSTALLATION
Cut all pipe square and deburr. Clean pipe and fittings of foreign material; then apply a small amount of primer while ensuring that any excess is wiped off immediately. Primer should not puddle or drip from pipe or fittings. Next apply a thin coat of PVC cement; first apply a thin layer to the pipe, next a thin layer inside the fitting, and finally another very thin layer on the pipe. Insert the pipe into the fitting. Insure that the pipe is inserted to the bottom of the fitting, then turn the pipe a 1/4 turn and hold for 10 seconds. Make sure that the pipe doesn't recede from the fitting. If the pipe isn't at the bottom of the fitting upon completion, the glue joint is unacceptable and must be discarded.

Pipes must cure a minimum of 30 minutes prior to handling and placing into tranches. A longer curing time may be required; refer to the manufacturer's specifications. The pipe must cure a minimum of 24 hours prior to filling with water.

BACK FILL
The Back fill 6" below and 6" above all piping shall be of clean sand and anything beyond that in the trench can be of native material but nothing larger than 2" in diameter.

Main line pipe depth measured to the top of pipe shall be 18" minimum, 36" minimum at vehicular crossings.

Lateral line depths measured to top of pipe shall be 12" minimum, 36" minimum at vehicular crossings.

Contractor shall backfill all piping, both mainline and laterals, prior to performing any pressure tests. The pipe shall be backfilled with the exception of 2' on each side of every joint (bell fittings, 90's, tees, 45's, etc.). These joints shall not be backfilled until all piping has satisfactorily passed its appropriate pressure test as outlined below.

FLUSHING
Prior to the placement of heads, flush all lines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.

Use screens in heads and adjust heads for proper coverage avoiding excess water on walls, walks and paving.TESTING
Remove all remote control valves and cap using a threaded cap. Fill mainline with water and pressurize the system to 125 PSI. Monitor the system pressure at two gauge locations; the gauge locations must be at opposite ends of the mainline. With the same respective pressures, monitor the gauges for two hours. There can be no loss in pressure at either gauge for solvent-welded pipe. Gasketed piping shall lose no more water than allowed per the Florida State Building Code, Volume II Plumbing, Part VI, Appendix 'F'. Refer to this section for the formula to be used to calculate the maximum allowable water loss during the testing time. If these parameters are exceeded, locate the problem; repair it; wait 24 hours and retry the test. This procedure must be followed until the mainline passes the test.

The lateral lines must be filled and visually checked for leaks. Any leaks detected must be repaired. No pressure test of the lateral lines is required.

Once the mainline and lateral lines have passed their respective tests, and the system is completely operational, a coverage test and demonstration of the system is required. The irrigation contractor must demonstrate to the owner, or his/her representative that proper coverage is obtained and that the system works automatically from the controller. This demonstration requires that each zone is turned on, in the proper sequence as shown on the plans, from the controller. Each zone will be inspected for proper coverage and function. The determination of proper coverage and function is at the sole discretion of the owner or owner's representative.

Operational Testing - Upon completion of back filling, finish grading and contouring, test the entire system for proper operation; including electrically actuating the remote control valves. Run each zone until water begins to puddle or run off. This will allow you to determine the number of irrigation start times necessary to meet the weekly evapotranspiration requirements of the planting material in each zone. In sandy soils no puddling will occur, instead; calculate the required run times.

SUBMITTALS
The contractor must submit for approval, prior to installation, copies of the manufacturer's cut sheets/specifications for all components to be used in the irrigation system. Minimum submittal items are: Irrigation Heads, Valves, Controller, Pump (Pump, Flow Sensor, Valves, Pipe, Fiberglass Enclosure), Lateral / Main line, Sleeves, Swing Joint assembly, Fittings, Wires, Waterproof Connection, Valve Boxes, Rain Sensor and Grounding Kit.

Record Drawings - After project completion, and as a condition of final acceptance, the irrigation contractor shall provide the owner with a high quality, accurate, and legible set of as-built drawings. The as-builts must identify all remote control valves, gate valves, ball valves, splice boxes, controllers, mainline, sleeving, and low voltage wiring. Each of these items is to be located using a submeter GPS system. The irrigation contractor must also provide accurate, informative, and easy to follow and understand operation and maintenance manuals for all components of the irrigation system.

Controller charts - Upon completion of "as-built" prepare controller charts; one per controller. Indicate on each chart the area controlled by a remote control valve (using a different color for each zone). This chart shall be reduced to a size that will fit inside of the controller door. The reduction shall be hermetically sealed inside two 2mil pieces of clear plastic.

Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents. Include tools to service these products.
1. Sprinkler Units: Five of each unit for each type and size installed, but no fewer than two units.
2. Emitter Units: Five of each unit for each type and size installed, but no fewer than two units.
3. Drip Tube Units: Five of each unit for each type and size installed, but no fewer than two units.

FINAL ACCEPTANCE
Final acceptance of the irrigation system will be given after the following documents and conditions have been completed and approved. Final payment will not be released until these conditions are satisfied.
1. Final walk-thru and correction of all punch list items.
2. Completion and acceptance of 'as-built' drawings.
3. Acceptance of required controller charts and placement inside of controllers.
4. Turn over of all required parts and tools as outlined in the project specifications.

GUARANTEE AND MAINTENANCE
The irrigation systems shall be guaranteed and maintained for a minimum of one calendar year from the time of final acceptance.

2-8-11

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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5741 North Andrews Way - Fort Lauderdale, Florida - 33309-2364
954-435-3008 - Fax: 954-426-8664 - www.millerlegg.com
Cert. of Auth.: LC0008357 - L.A. of Record: Brian R. Shaw LA-6668770

CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
814	BROWARD	10-00247

IRRIGATION NOTES

SHEET NO. LD-17

IRRIGATION SCHEDULE

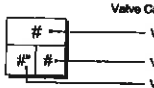
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS-NP 15 Strip Series 6" popup with check valve, pressure regulator, purple cap.	3	EST	30	0.61	4'x15'
	Rain Bird 1806-SAM-PRS-NP 15 Strip Series 6" popup with check valve, pressure regulator, purple cap.	11	SST	30	1.21	4'x30'
	Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap.	42	180	30	0.79	10'
	Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap.	5	90	30	0.39	10'
	Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap.	1	120	30	0.53	10'
	Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap.	278	180	30	1.85	15'
	Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap.	12	90	30	0.92	15'
	Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap.	11	120	30	1.23	15'
▲	Rain Bird 1800-1400 Flood Food bubbler on flex pipe.	207	360	30	1.00	1'

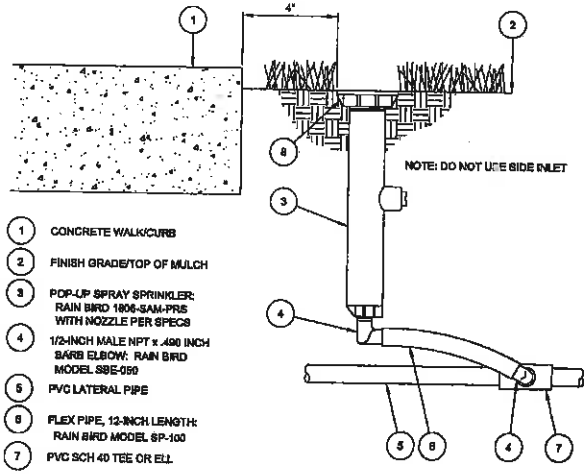
VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	PSI	PSI @ POC	GPM	PRECIP
1	Rain Bird PESB	1-1/2"	Turf Spray	37.64	39.00	51.86	1.35 in/h
2	Rain Bird PESB	1-1/2"	Bubbler	36.86	36.86	48.00	30.64 in/h
3	Rain Bird PESB	1-1/2"	Turf Spray	37.06	39.30	51.80	1.46 in/h
4	Rain Bird PESB	1-1/2"	Turf Spray	36.92	39.76	51.80	1.48 in/h
5	Rain Bird PESB	1-1/2"	Turf Spray	37.06	40.55	51.80	1.47 in/h
6	Rain Bird PESB	1-1/2"	Bubbler	40.01	43.69	51.00	30.64 in/h
7	Rain Bird PESB	1-1/2"	Turf Spray	37.07	41.15	51.80	1.47 in/h
8	Rain Bird PESB	1-1/2"	Bubbler	39.64	42.68	42.00	30.64 in/h
9	Rain Bird PESB	1-1/2"	Turf Spray	36.91	41.15	48.80	1.36 in/h
10	Rain Bird PESB	1-1/2"	Turf Spray	36.91	42.79	50.30	1.37 in/h
11	Rain Bird PESB	1-1/2"	Turf Spray	37.04	43.91	51.80	1.44 in/h
12	Rain Bird PESB	1-1/2"	Bubbler	40.09	47.53	52.00	30.64 in/h
13	Rain Bird PESB	1-1/2"	Turf Spray	36.91	44.41	51.80	1.44 in/h
14	Rain Bird PESB	1-1/2"	Turf Spray	36.31	48.01	50.33	1.42 in/h
15-A	Rain Bird PESB	1"	Turf Spray	34.62	35.54	13.46	1.39 in/h
15-B	Rain Bird PESB	1-1/2"	Turf Spray	36.17	41.37	32.35	1.70 in/h
16	Rain Bird PESB	1-1/2"	Turf Spray	36.62	45.52	45.75	1.55 in/h

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird PESB Electric Remote Control Scrubber Valve	17
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as pipe diameter, Size Range - 1/4" - 3"	±
C	Rain Bird ESP-24SITE-W Rain Bird ESP-SITE-SAT satellite controller with 24 stations, wall mount.	1
SHP	5HP Centrifugal Pump Station	1
	Irrigation Lateral Line: PVC Schedule 40	6,619 l.f.
	Irrigation Mainline: PVC Schedule 40	4,225 l.f.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	1,685 l.f.

Valve Callout

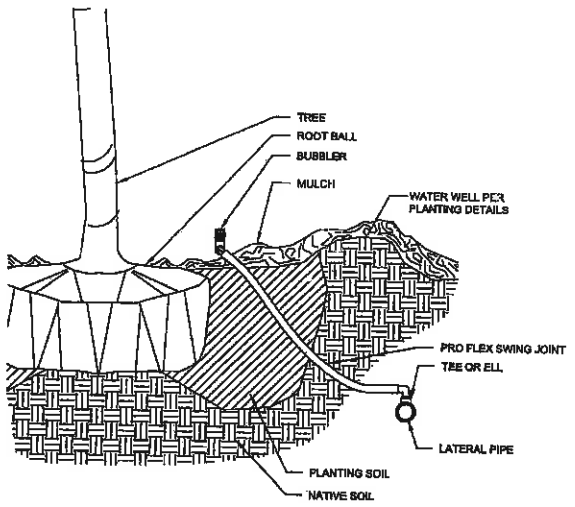




NOTE: DO NOT USE SIDE INLET

1. CONCRETE WALK/CURB
2. FINISH GRADE/TOP OF MULCH
3. POP-UP SPRAY SPRINKLER: RAIN BIRD 1806-SAM-PRS WITH NOZZLE PER SPECS
4. 1/2-INCH MALE NPT x .490 INCH BARB ELBOW: RAIN BIRD MODEL SBE-050
5. PVC LATERAL PIPE
6. FLEX PIPE, 12-INCH LENGTH: RAIN BIRD MODEL SP-100
7. PVC SCH 40 TEE OR ELL
8. RECLAIMED CAP, AS REQUIRED

1 6" POP-UP SPRAY



2 TREE BUBBLER

3-8-11

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
814	BROWARD	10-00247

IRRIGATION NOTES

SHEET NO. LD-18

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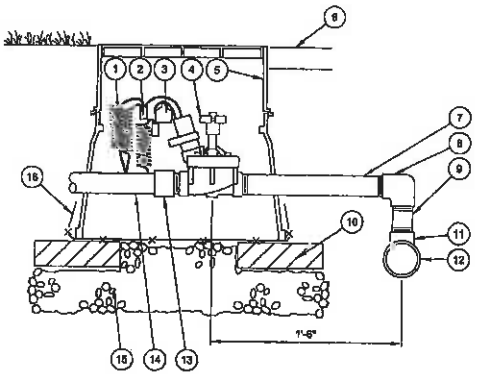


1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION (1 OF 2)
3. ID TAG
4. REMOTE CONTROL VALVE RAIN BIRD PESB WITH PURPLE HANDLE
5. STANDARD VALVE BOX PURPLE
6. FINISH GRADE
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. DUCTILE IRON TEE
12. PVC MAINLINE PIPE
13. PVC SCH 40 MALE ADAPTER
14. PVC LATERAL PIPE
15. 6.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
16. 1/2" WIRE CLOTH GOPHER SCREEN. WRAP UP ALL SIDES

ELECTRICAL SPECIFICATIONS

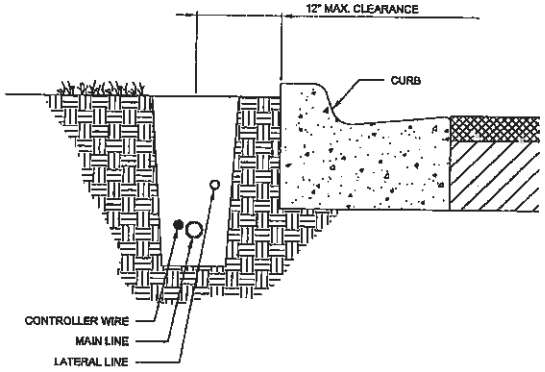
- 24 VAC 50/60 Hz (CYCLES/SEC.) SOLENOID
- INRUSH CURRENT: 0.41 A (9.84 VA) AT 60 Hz
- HOLDING CURRENT: 0.28 A (6.72 VA) AT 60 Hz
- COIL RESISTANCE: 20-30 OHMS

PESB SERIES VALVE PRESSURE LOSS			
FLOW GPM	100-PESB PSI LOSS	150-PESB PSI LOSS	200-PESB PSI LOSS
5	1.7		
10	1.8		
20	2.9		
30	5.6	3.6	
40		3.5	
50		3.6	
75		5.4	4.5
100			5.2
125			8.2

3 REMOTE CONTROL VALVE

NOTES:

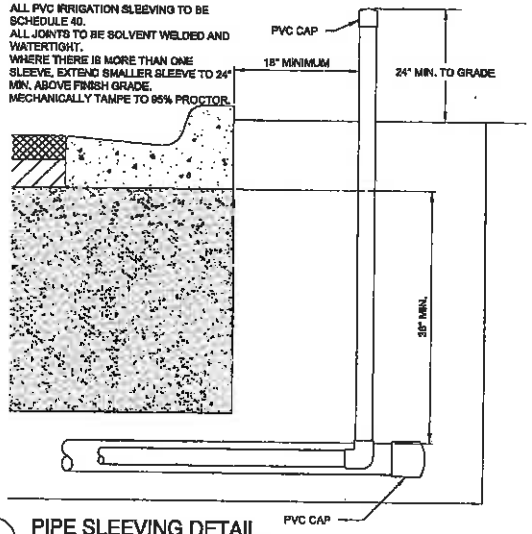
BACKFILL MINIMUM DEPTHS:
1. MAIN LINE - 18"
2. LATERAL PIPE - 12"



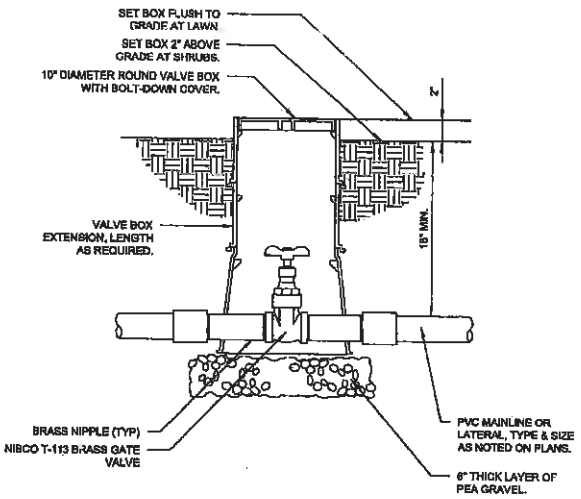
5 MAINLINE AND LATERAL PIPING DETAIL

NOTES:

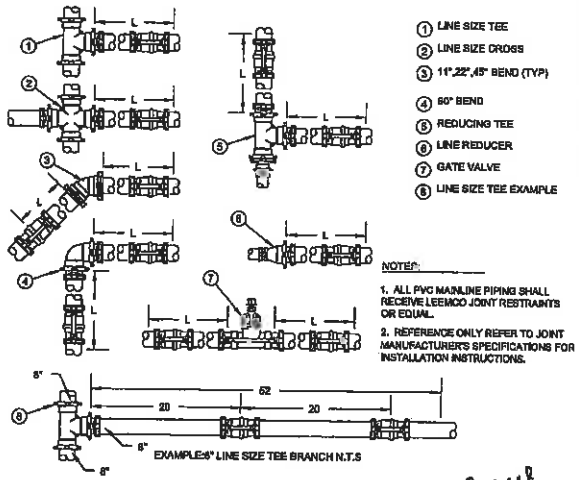
1. ALL PVC IRRIGATION SLEEVING TO BE SCHEDULE 40.
2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
3. WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND SMALLER SLEEVE TO 24" MIN. ABOVE FINISH GRADE.
4. MECHANICALLY TAMPE TO 95% PROCTOR.



6 PIPE SLEEVING DETAIL



4 BRASS ISOLATION VALVE



1. LINE SIZE TEE
2. LINE SIZE CROSS
3. 11°,22°,45° BEND (TYP)
4. 90° BEND
5. REDUCING TEE
6. LINE REDUCER
7. GATE VALVE
8. LINE SIZE TEE EXAMPLE

NOTES:

1. ALL PVC MAINLINE PIPING SHALL RECEIVE LEEMCO JOINT RESTRAINTS OR EQUAL.
2. REFERENCE ONLY REFER TO JOINT MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS.

7 JOINT RESTRAINTS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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954-015-7000 - Fax: 954-015-8564 - www.millerlegg.com
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CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
814	BROWARD	10-00247

IRRIGATION NOTES

SHEET NO. LD-19

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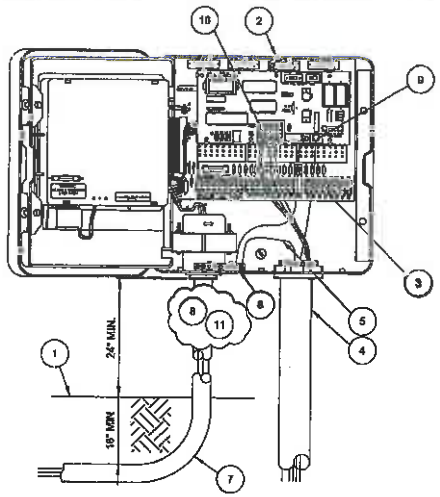


1. FINISH GRADE
2. RAIN BIRD ESP-SITE FIELD SATELLITE CONTROLLER, WALL MOUNT (METAL / PLASTIC)
3. WIRE TERMINAL CONNECTORS TO REMOTE CONTROL VALVES
4. CONDUIT - SIZE AS REQUIRED
5. #6 COPPER GROUND WIRE FROM ESP-SITE FIELD SATELLITE CONTROLLER GROUNDING BUSS BAR TO GROUNDING GRID (SEE GROUNDING DETAIL)
6. ESP-SITE FIELD SATELLITE CONTROLLER GROUNDING BUSS BAR
7. 120 VOLT POWER SUPPLY
8. REFER TO LOCAL ELECTRICAL CODE FOR CONNECTIONS
9. TELEPHONE LINE INPUT
10. ESP-SITE SATELLITE SENSOR INPUT
11. RAIN BIRD WARRANTY REQUIRES PROPER SURGE PROTECTION. USE INTERMATIC AG2401 OR TRIPPLITE ISOBAR

8 MAXICOM ESP-SITE FIELD SATELLITE CONTROLLER

NOTE:

SUCTION PIPES AND FITTINGS SHALL BE HDPE HEAT FUSED. CHECK VALVE 3" AND LARGER SHALL BE SWING TYPE, 2" AND SMALLER SHALL BE POPPET STYLE.

ALL EXPOSED SUCTION & DISCHARGE PIPE ADJACENT TO THE PUMP SYSTEM SHALL BE GALVANIZED STEEL. BUTTERFLY OR BALLVALVE PROVIDED AT EACH PUMP.

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

IRRIGATION CONTROLLER:

RAIN BIRD ESP-24SITE-W WITH RAINGAUGE AND FLOW SENSOR

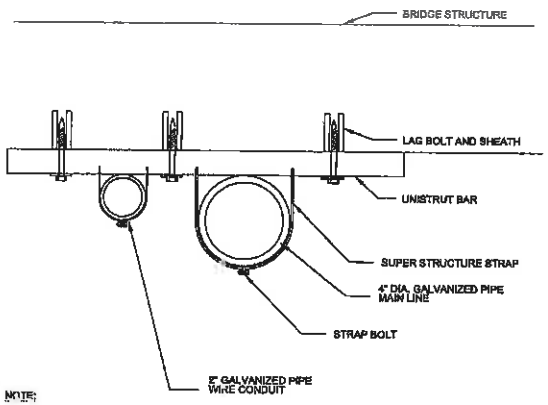
FEATURES:

CLOCK START
TRANSIENT SURGE
LOSS OF PRIME
NO FLOW

PUMP PERFORMANCE:

55 GPM @ 140 TDH

HOOVER PUMPING MODEL: HCF-5CS-230/3-D,E-24,W,Z PN11045 OR EQUAL

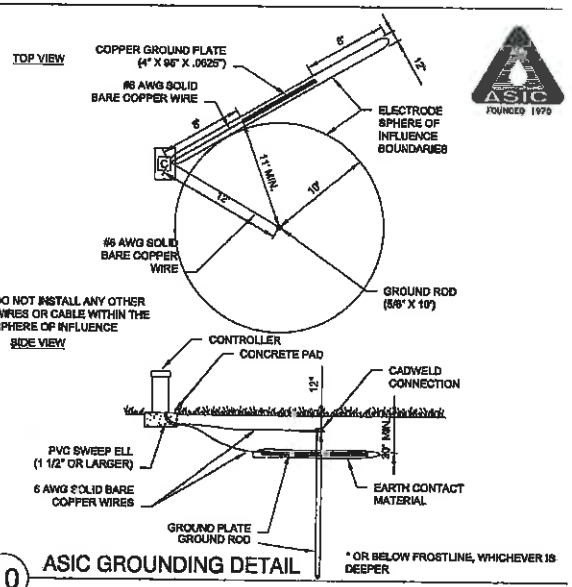


NOTE:

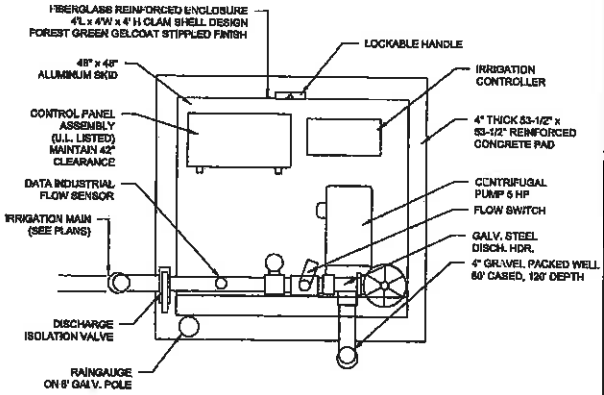
SUBMIT MANUFACTURE SHOP DRAWING

SUBMIT NARRATIVE ADDRESSING THE NUMBER OF PIPE SUPPORTS NECESSARY TO CROSS BRIDGE. MINIMUM 4' O.C.

9 EXPOSED PIPE SUPPORT



10 ASIC GROUNDING DETAIL



11 5 HP FIBERGLASS ENCLOSED WELL PUMP

3-8-11

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CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
814	BROWARD	10-00247

IRRIGATION NOTES

SHEET NO. LD-20

IRRIGATION SCHEDULE

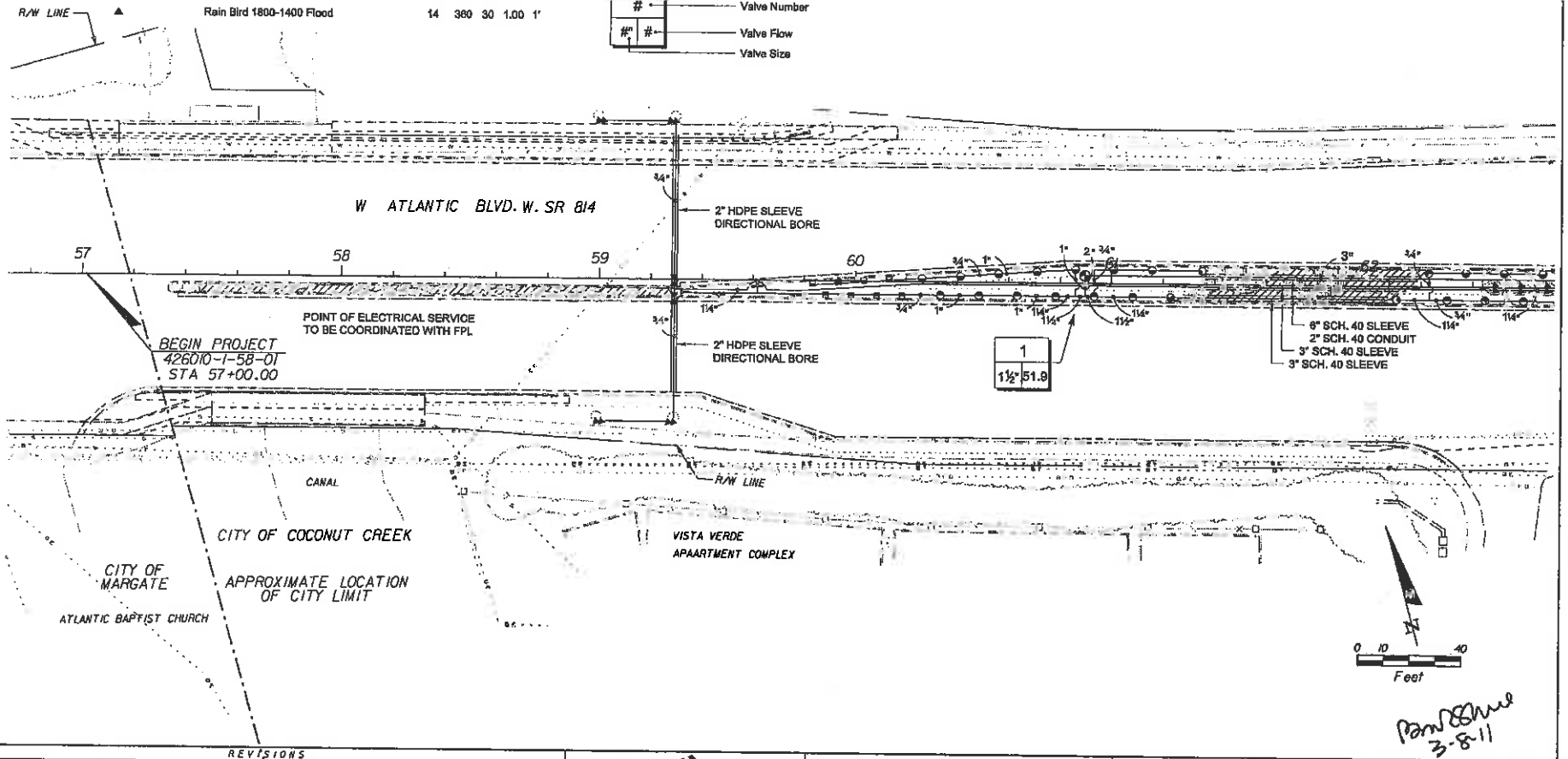
SYMBOL	MANUFACTURER/MODEL	QTY	APC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS-NP 15 Strip Series 1		EST	30	0.61	4'x15'
	Rain Bird 1806-SAM-PRS-NP 15 Strip Series 3		SST	30	1.21	4'x30'
	Rain Bird 1806-SAM-PRS-NP 10 Series MPR 8		180	30	0.79	10'
	Rain Bird 1806-SAM-PRS-NP 15 Series MPR 19		180	30	1.85	15'
	Rain Bird 1806-SAM-PRS-NP 15 Series MPR 2		90	30	0.92	15'
	Rain Bird 1806-SAM-PRS-NP 15 Series MPR 2		120	30	1.23	15'
	Rain Bird 1800-1400 Flood	14	360	30	1.00	1'

SYMBOL	MANUFACTURER/MODEL	QTY
	Rain Bird PESB	1
	Nibco T-113	2
	Irrigation Lateral Line: PVC Schedule 40	1,104 l.f.
	Irrigation Mainline: PVC Schedule 40	181 l.f.
	Pipe Sleeve	330 l.f.

Valve Callout

#	
#"	#

Valve Number
Valve Flow
Valve Size



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CITY OF COCONUT CREEK			IRRIGATION PLAN	SHEET NO.
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID		
814	BROWARD	10-00249		LD-21

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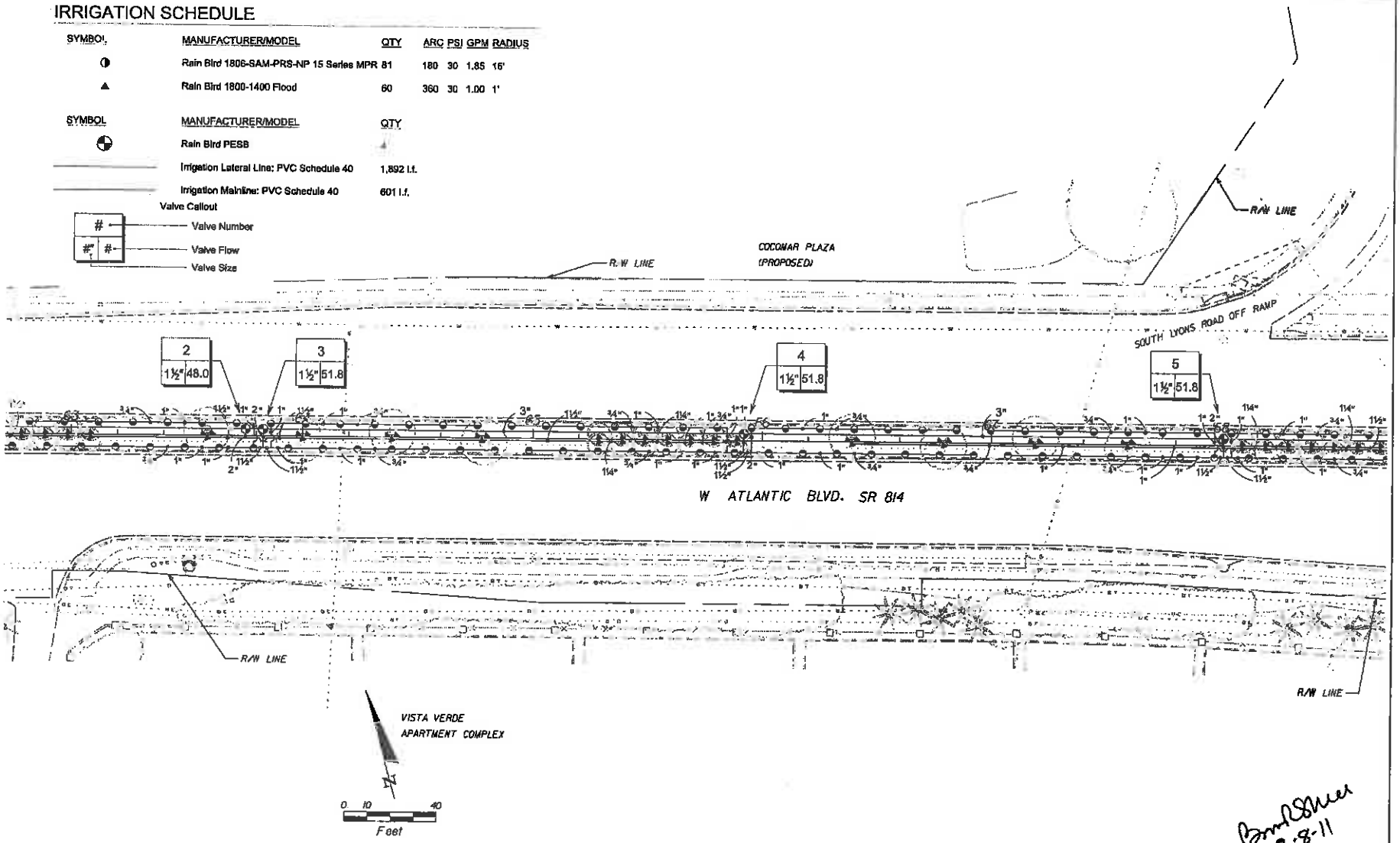
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
◑	Rain Bird 1806-SAM-PRS-NP 15 Series MPR	81	180	30	1.85	16'
▲	Rain Bird 1800-1400 Flood	60	360	30	1.00	1'

SYMBOL	MANUFACTURER/MODEL	QTY
⊕	Rain Bird PESB	4
———	Irrigation Lateral Line: PVC Schedule 40	1,892 l.f.
———	Irrigation Mainline: PVC Schedule 40	601 l.f.

Valve Callout

#	Valve Number
#" | #	Valve Flow / Valve Size



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CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
814	BROWARD	10-00249

IRRIGATION PLAN

SHEET NO. LD-22

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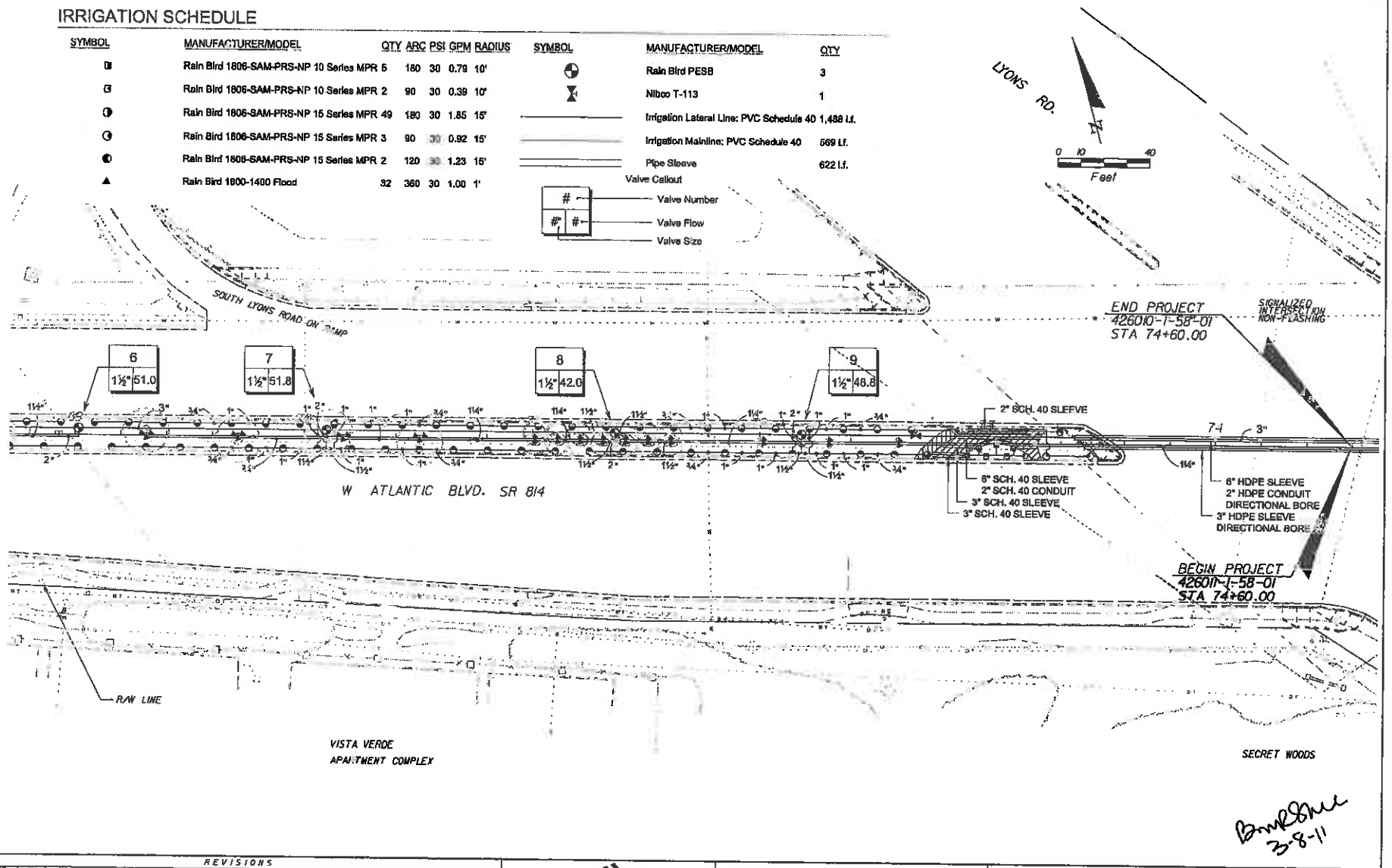
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS-NP 10 Series MPR	6	180	30	0.79	10'
	Rain Bird 1806-SAM-PRS-NP 10 Series MPR	2	90	30	0.39	10'
	Rain Bird 1806-SAM-PRS-NP 15 Series MPR	49	180	30	1.85	15'
	Rain Bird 1806-SAM-PRS-NP 15 Series MPR	3	90	30	0.92	15'
	Rain Bird 1806-SAM-PRS-NP 15 Series MPR	2	120	30	1.23	15'
	Rain Bird 1800-1400 Flood	32	360	30	1.00	1'

SYMBOL	MANUFACTURER/MODEL	QTY
	Rain Bird PESB	3
	Nibco T-113	1
	Irrigation Lateral Line: PVC Schedule 40	1,488 l.f.
	Irrigation Mainline: PVC Schedule 40	569 l.f.
	Pipe Sleeve	622 l.f.

Valve Callout
- # — Valve Number
- # / # — Valve Flow / Valve Size



3-8-11

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MILLER LEGG
5140 North Andrews Way · Fort Lauderdale, Florida · 33309-2164
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Cert. of Auth.: LC0000037 · L.A. of Record: Brian R. Shaw LA-6666770

CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
814	BROWARD	10-00249

IRRIGATION PLAN

SHEET NO. LD-23

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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS-NP 10 Series MPR	3	180	30	0.79	10'
	Rain Bird 1806-SAM-PRS-NP 10 Series MPR	2	90	30	0.39	10'
	Rain Bird 1806-SAM-PRS-NP 15 Series MPR	55	180	30	1.85	15'
	Rain Bird 1806-SAM-PRS-NP 15 Series MPR	3	90	30	0.92	15'
	Rain Bird 1806-SAM-PRS-NP 15 Series MPR	3	120	30	1.23	15'
	Rain Bird 1800-1400 Flood	36	360	30	1.00	1'

SYMBOL	MANUFACTURER/MODEL	QTY
	Rain Bird PESB	2
	Nibco T-113	1
C	Rain Bird ESP-24SITE-W	1
5HP	5HP Centrifugal Pump Station / Well	1
	Irrigation Lateral Line: PVC Schedule 40	1,795 l.f.
	Irrigation Mainline: PVC Schedule 40	619 l.f.
	Pipe Sleeve	642 l.f.

Valve Callout
Valve Number
Valve Flow
Valve Size

0 10 40
Feet

R/W LINE

5 HP CENTRIFUGAL PUMP STATION
WITH 4" GRAVEL PACKED WELL - 80' CASED, 120' DEPTH
55 GPM @ 50 PSI
CONTRACTOR TO PROVIDE PHASE III, 208 VAC POWER
CONTRACTOR TO PROVIDE P.O.T.S. CONNECTION FOR
CENTRAL CONTROL COMMUNICATION

10 — 1½" | 50.3

11 — 1½" | 51.8

2" SCH. 40 SLEEVE
6" SCH. 40 SLEEVE
2" SCH. 40 CONDUIT

SIGNALIZED INTERSECTION NON-FLASHING

6" HDPE SLEEVE
2" HDPE CONDUIT
DIRECTIONAL BORE
3" HDPE SLEEVE
DIRECTIONAL BORE

3" SCH. 40 SLEEVE
2" SCH. 40 SLEEVE

W ATLANTIC BLVD. SR 814

PUMPSTATION AND WELL
TO BE CENTERED IN MEDIAN

2 - 2" HDPE CONDUIT
DIRECTIONAL BORE
1 - ELECTRICAL
2 - PHONE

NORTH LYONS ROAD ON RAMP

LYONS RD.

POTENTIAL ELECTRICAL POINT OF CONNECTION
PROVIDE METER/PRIMARY DISCONNECT
PROVIDE WIRE, CONDUIT & HANDHOLE BOX
PROVIDE PHASE III, 208 VAC POWER
CONTRACTOR TO PROVIDE P.O.T.S. CONNECTION FOR
CENTRAL CONTROL COMMUNICATION

RETENTION POND

R/W LINE

Bonnie Blum
3-8-11

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
814	BROWARD	10-00249

IRRIGATION PLAN

SHEET NO.
LD-24

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IRRIGATION SCHEDULE

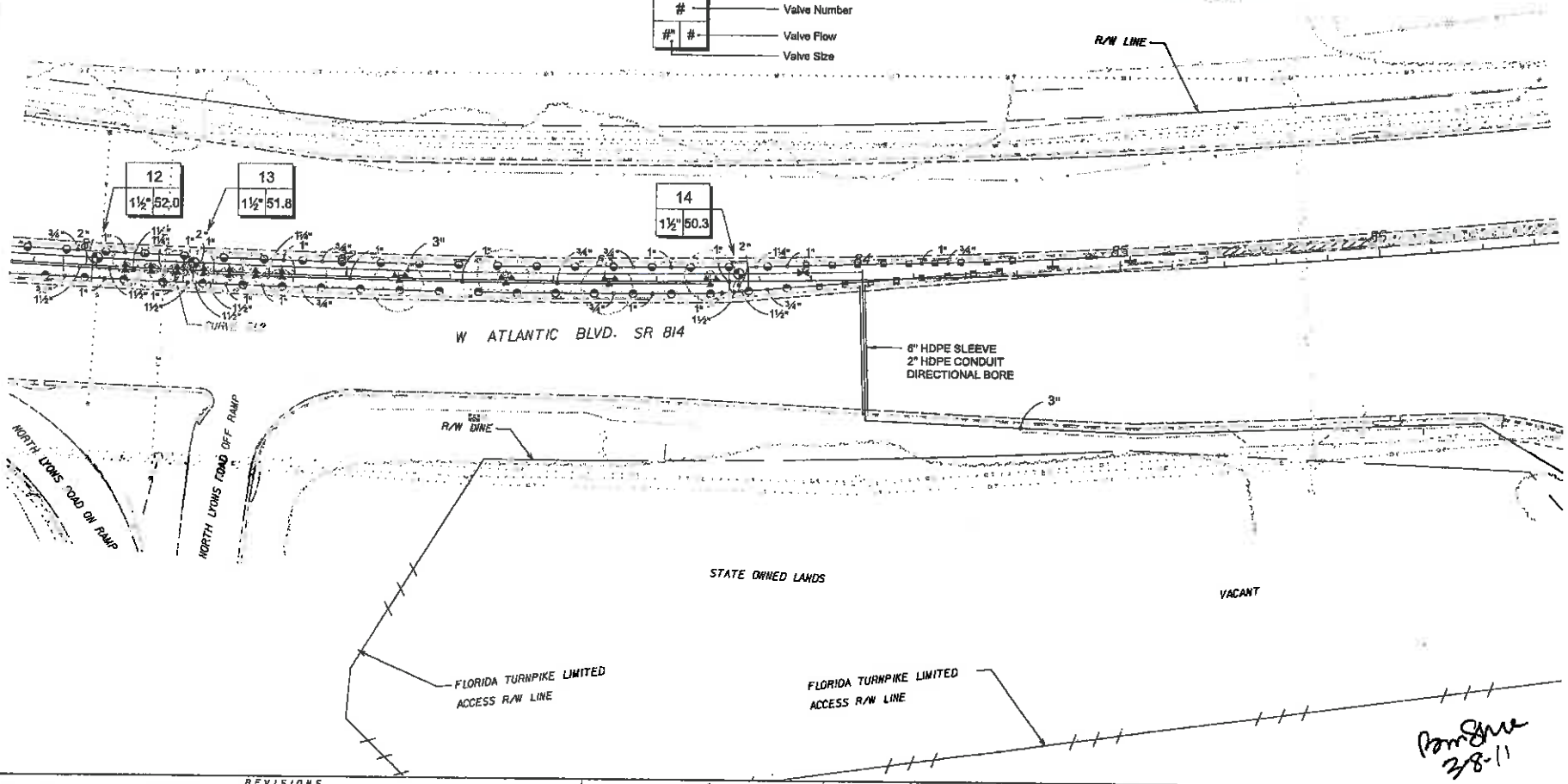
SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS-NP 15 Strip Series	1	EST	30	0.61	4'x15'
	Rain Bird 1806-SAM-PRS-NP 15 Strip Series	4	SST	30	1.21	4'x30'
	Rain Bird 1806-SAM-PRS-NP 10 Series MPR	17	180	30	0.79	10'
	Rain Bird 1806-SAM-PRS-NP 15 Series MPR	41	180	30	1.85	15'
	Rain Bird 1800-1400 Flood	26	360	30	1.00	1'

SYMBOL	MANUFACTURER/MODEL	QTY
	Rain Bird PESB	3
	Nibco T-113	1
	Irrigation Lateral Line: PVC Schedule 40	1,197 l.f.
	Irrigation Mainline: PVC Schedule 40	671 l.f.
	Pipe Sleeve	50 l.f.

Valve Callout
- # — Valve Number
- #" | # — Valve Flow / Valve Size

N

0 40 80 Feet



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REVISIONS

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
814	BROWARD	10-00249

IRRIGATION PLAN

SHEET NO. LD-25

IRRIGATION SCHEDULE

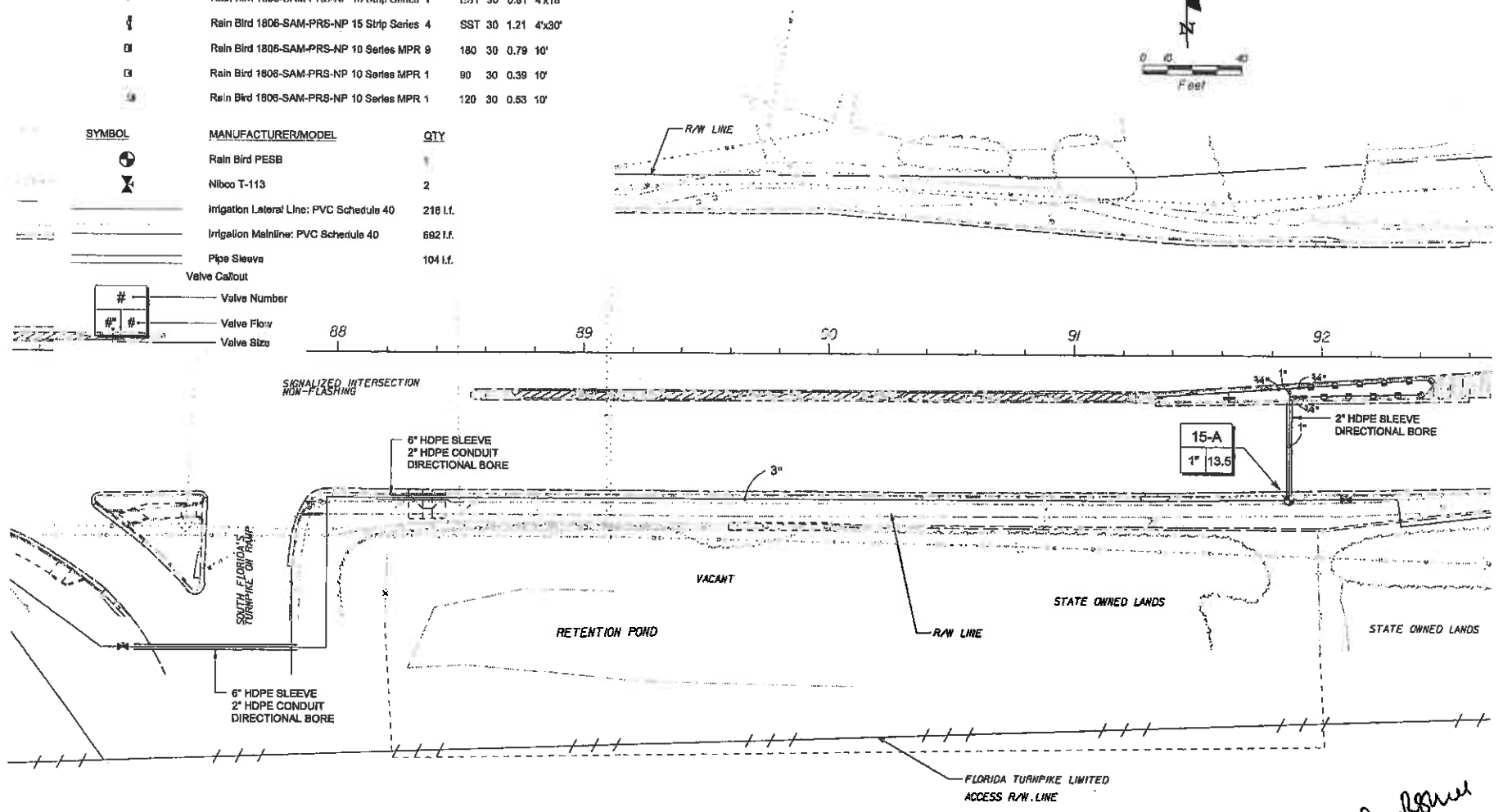
SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS-NP 15 Strip Series	1	EST	30	0.61	4'x15'
	Rain Bird 1806-SAM-PRS-NP 15 Strip Series	4	SST	30	1.21	4'x30'
	Rain Bird 1806-SAM-PRS-NP 10 Series MPR	9	180	30	0.79	10'
	Rain Bird 1806-SAM-PRS-NP 10 Series MPR	1	90	30	0.39	10'
	Rain Bird 1806-SAM-PRS-NP 10 Series MPR	1	120	30	0.53	10'

SYMBOL	MANUFACTURER/MODEL	QTY
	Rain Bird PESB	1
	Nibco T-113	2
	Irrigation Lateral Line: PVC Schedule 40	216 l.f.
	Irrigation Mainline: PVC Schedule 40	682 l.f.
	Pipe Sleeve	104 l.f.

Valve Callout

— Valve Number

#" | # — Valve Flow / Valve Size



3-8-11

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
814	BROWARD	10-00249

IRRIGATION PLAN

SHEET NO. LD-26

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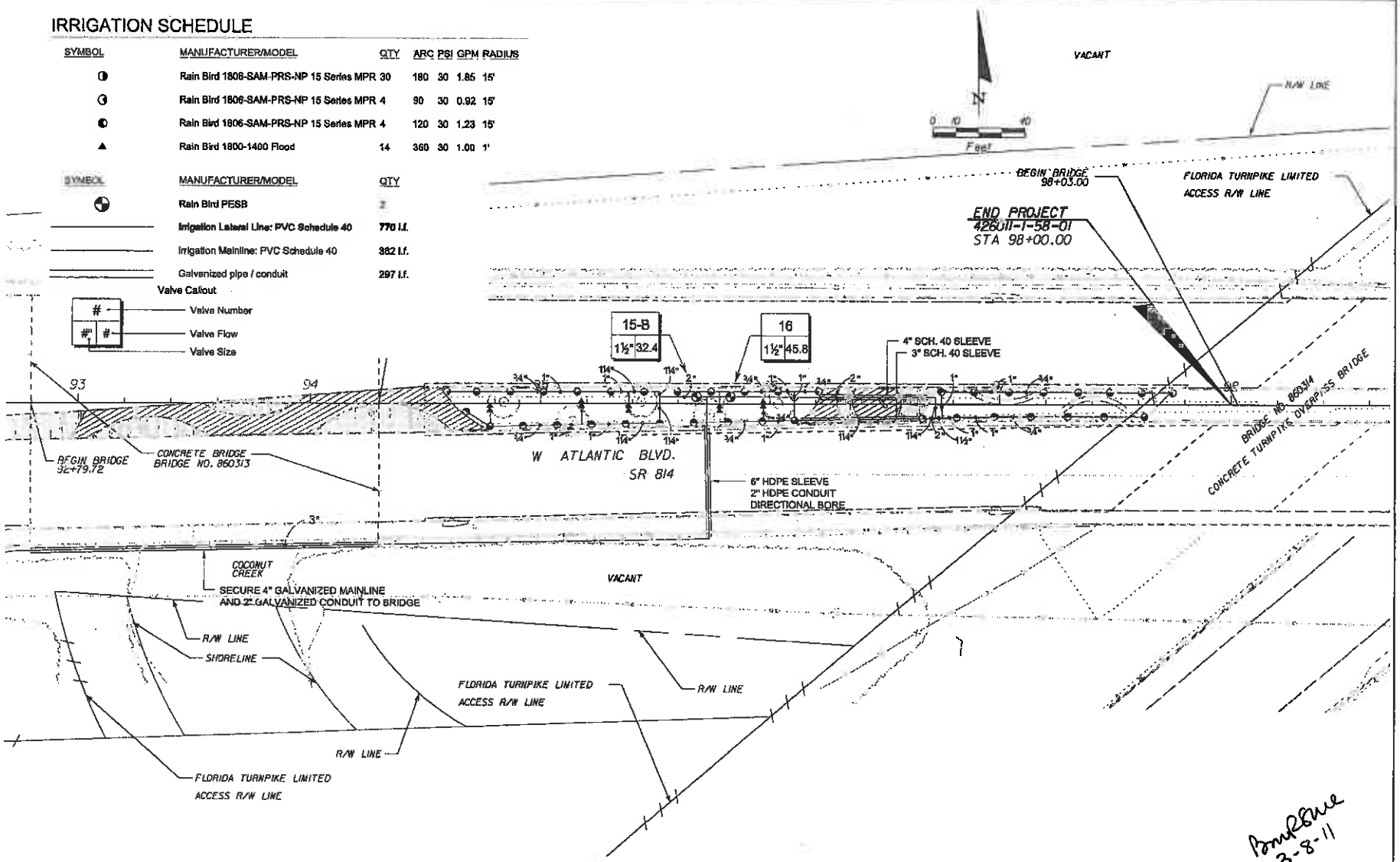
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
◑	Rain Bird 1806-SAM-PRS-NP 15 Series MPR	30	180	30	1.85	15'
◔	Rain Bird 1806-SAM-PRS-NP 15 Series MPR	4	90	30	0.92	15'
◐	Rain Bird 1806-SAM-PRS-NP 15 Series MPR	4	120	30	1.23	15'
▲	Rain Bird 1800-1400 Flood	14	360	30	1.00	1'

SYMBOL	MANUFACTURER/MODEL	QTY
⊕	Rain Bird PESB	2
———	Irrigation Lateral Line: PVC Schedule 40	770 l.f.
———	Irrigation Mainline: PVC Schedule 40	382 l.f.
———	Galvanized pipe / conduit	297 l.f.

Valve Callout

(Valve Number)
#" # (Valve Flow / Valve Size)



3-8-11

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK			IRRIGATION PLAN	SHEET NO.
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID		
814	BROWARD	10-00247		LD-27

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PROJECT SPECIFIC GENERAL NOTES:

1. Traffic controls shall be in accordance with the project plans, the current edition of the Florida Department of Transportation (FDOT) Design Standards (600 series), the Standard Specification for Road and Bridge Construction, and the current Manual on Uniform Traffic Control Devices as minimum criteria.

2. Notification of lane closures shall be accompanied 14 working days prior to closure submitting the required lane closure form, sketches, calculations, and other data through the Engineer to the District Traffic Operations Office.

3. Traffic disruptions which are not shown by the traffic control plan, but which are necessary to construct the project shall be submitted in writing to the engineer 14 days prior to the commencement of work. Submittal material shall include sketches, calculations and other data required by the Engineer.

4. The traffic and travel ways shall not be altered by the Contractor to create a work zone until all labor and material are available for the construction in that area.

5. Lane closings shall occur only during non-peak hours. Peak hours are from: 7:00-9:00am and 4:00-6:00pm.

6. The regulatory speed through the work zone shall be posted 45 mph.

7. As approved by the Engineer, the Contractor shall cover work zone signs when conditions no longer warrant their use. Cost of covering and uncovering the signs, daily maintenance and monitoring shall be included in maintenance of traffic.

8. Contractor shall remove, relocate or cover any existing or proposed signs that conflict with the traffic control plans. When the conflict no longer exists, the contractor shall restore the signs to their original position. Cost of temporarily removing, relocating,covering and restoring the signs shall be included in maintenance of traffic.

9. Uniformed, off-duty law enforcement officers can be used only as approved by the Engineer and use is limited to construction operations for setting and removing traffic control devices, night work, moving operations, or other situations specifically approved by the Engineer. All cost for the officer(s) shall be included in the maintenance of traffic.

10. All existing signage shall be maintained in an appropriate location for the duration of the project.

11. The contractor shall maintain a minimum of one lane of traffic at all times for minor side streets. During one lane operation a flag man shall be used. If operation exceeds one work period, contractor shall cover excavation and return two way traffic at the end of each work period.

12. If temporary lane closure causes extended congestion, the contractor shall, at the direction of the Engineer, reopen the closed lane(s) at no additional cost until such time the traffic flow has returned to an acceptable level.

13. Provisions for traffic control plan which are not anticipated in the traffic control plans, but are necessary for project construction shall be submitted to the engineer at least 72 hours prior to using such provisions.

14. A certified maintenance of traffic supervisors shall be available to the project at all times when the contractor is working and shall be on call for emergencies when the Contractor is not working. All work shall cease when MOT Supervisor is not present.

15. Access shall be provided to all places of business and residences whenever construction interferes with the existing means of access. Adequate accommdations for intersecting and crossing traffic shall be provided and maintained by the contractor. No road or street crossings within the project shall be blocked or unduly restricted as determined by the engineer.

16. Contractor shall be responsible for the immediate removal of storm water from roadways utilized for maintaining traffic in a manner approved by the Engineer. Cost for removing the water shall be included in maintenance of traffic.

17. Arrows provided on details denote direction of traffic only and do not reflect pavement markings unless specifically noted.

Markings:

1. The contractor shall maintain all existing pavement markings during construction. If necessary, Contractor shall submit to the Engineer any modifications or temporary markings to the existing pavement markings during construction. Cost of removal of temporary pavement markings, regardless of method, is included in the related pavement marking maintenance of traffic. Use of black paint to cover existing and/or temporary pavement markings is prohibited.

Drop offs:

1. For drop offs, the contractor's attention is directed to fdot standard index no. 600, sheet 6 of 10.

Signals:

1. The contractor shall have full responsibility for the normal maintenance of existing traffic signal(s) within the project limits. All signals shall remain in full operation unless deemed necessary for construction activities. The contractor shall notify Broward County Traffic Engineering Division (BCTED) (Telephone number (954) 847-2600) a minimum of 10 working days prior to any modification and/or changes of an existing traffic signal (i.e. Taking signals off-line, removing or replacing loop assemblies or rearranging traffic signal heads). The contractor shall install the temporary signalization system and have the system in operation before taking the existing system out of service. Portable temporary units shall not be used. The temporary signal system shall be adjusted to the traffic needs of each construction phase. Signal heads are to be located with respect to approach lanes. Cost of adjusting temporary signal for the required top phases shall be included in maintenance of traffic.

2. The contractor shall utilize the existing signal equipment or provide all necessary signalization components and appurtenances, including but not limited to; poles, temporary electric service connections, temporary conduits and wires, relocation of existing controllers or temporary controllers, and necessary signal timing coordinatbon with Broward County Traffic. The contractor shall provide maintenance of the temporary signal system until the permanent system is installed and functional. Cost to be included in maintenance of traffic.

Pedestrian, bicycles & wheelchairs:

1. The contractor shall maintain pedestrian, bicycle, and wheel chair traffic on at least one side of the roadway at all times during construction. This shall be done in accordance to index 660 1 Of 1.

2. At the end of each work day or whenever the work zone becomes inactive, any drop-off adjacent to pedestrian travel paths shall be backfilled flush with the travel path or shall be protected with barricades, temporary barrier wall or approved handrail.

3. Pedestrian, bicycles, and wheelchair traffic shall be guided and maintained using approved warning lights, signing, markings, and channelization devices. Such control devices shall be installed and maintained in accordance with, fdot standards and the current mutcd. All ada requirements must be maintained.

4. The contractor shall maintain access and signs for existing bus stop locations within the project limits. If existing bus stops need to be relocated, provisions to accomodate bus stops must be coordinated with the Broward County Mass Transit Agency, telephone number (954) 357-8400.

5. The maintenance of traffic shall include provisions for school pedestrian traffic with the following minimum requirements: The safe walk route for all schools within the vicinity of the construction zone shall be maintained during the times students are arriving at or leaving school. All construction equipment around any designated crosswalk shall cease to operate during the times students are arriving at or leaving school. All construction equipment adjacent to a designated walk route shall cease operating unless satisfactorily barricaded from the walk route. In the case that a designated crossing or any portion of the designated walk route cannot be maintained. Then the contractor shall notify the 'school safety coordinator' at Broward County Traffic Engineering Division, (954.' 847-2600, a minimum of ten (10) working days prior to closing that route so that an alternate crossing/route can be established. Thirty (30) days prior to the beginning of construction the contractor shall notify the school safety coordinator' at Broward County Traffic Engineering Division, (954) 847-2600, to arrange a 'pre-construction school safety' meeting.

Landscape plan specific notes:

1. For landscape work within or near median, reference sheets LD-26 and LD-27 (Index 613). For landscape work along outer edges and ramp area, reference sheet LD-8 (Index 612).

2. INTERSECTIONS: Vista Verde Entrance, South Lyons Road on and off ramps, North Lyons Road on and off ramps, Lyons Road, Florida's Turnpike on ramp:

a. FDOT standard index 616 must be implemented when median work near intersection condition exists.
b. Traffic control at intersections must provide sight distances for the road user to perceive potential conflicts and to traverse the intersection safely.
c. Contractor to cover signal heads or make signal head revisions where impacted as required due to maintnance of traffic per FDOT standard index 600 and fdot traffic operations office. Broward county transit Rout 42 runs along SR 814,
d. Maintenance of traffic shall include provisions for pedestrians and / or school traffic as well as vehicular traffic. Contractor to comply with all school safety requirements as outlined in the BCTED Maintenence of traffic school / pedestrian criteria.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK			TRAFFIC CONTROL NOTES	SHEET NO.
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID		
814	BROWARD	10-00247		LD-28

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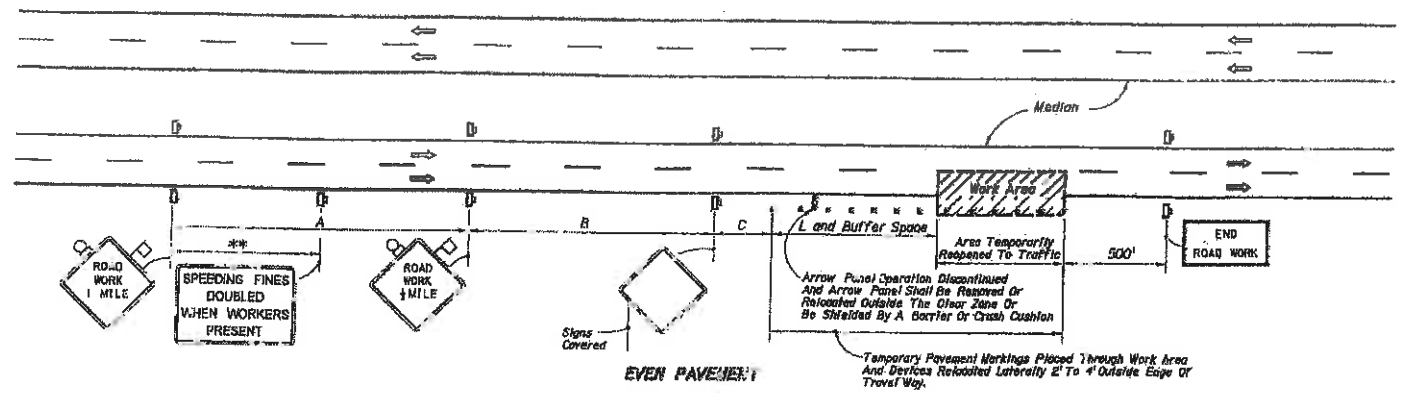
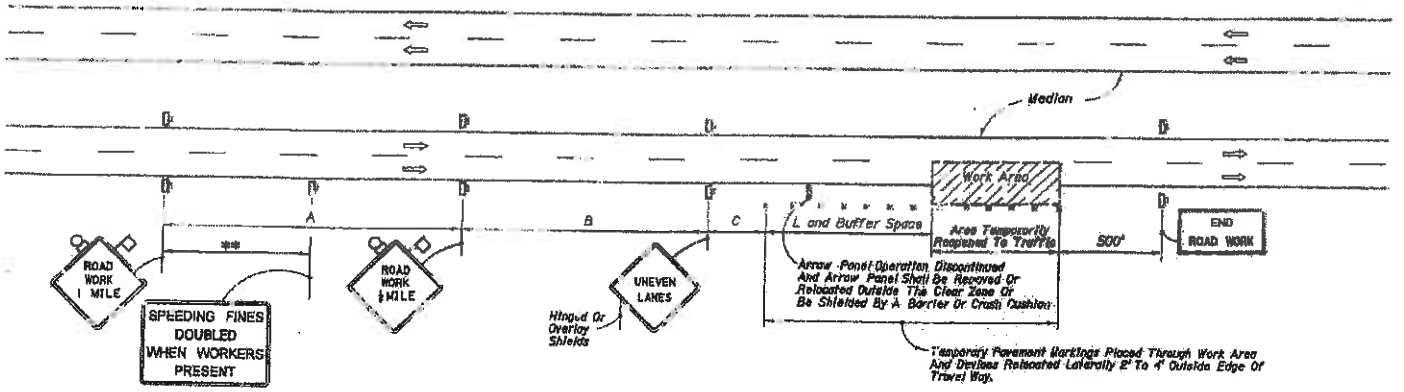


EVEN PAVEMENT



UNEVEN PAVEMENT

INTERMITTENT WORK STOPPAGE - LANE REOPENED TO TRAFFIC

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK			TRAFFIC CONTROL DETAIL	SHEET NO.
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID		
814	BROWARD	10-00249		LD-29

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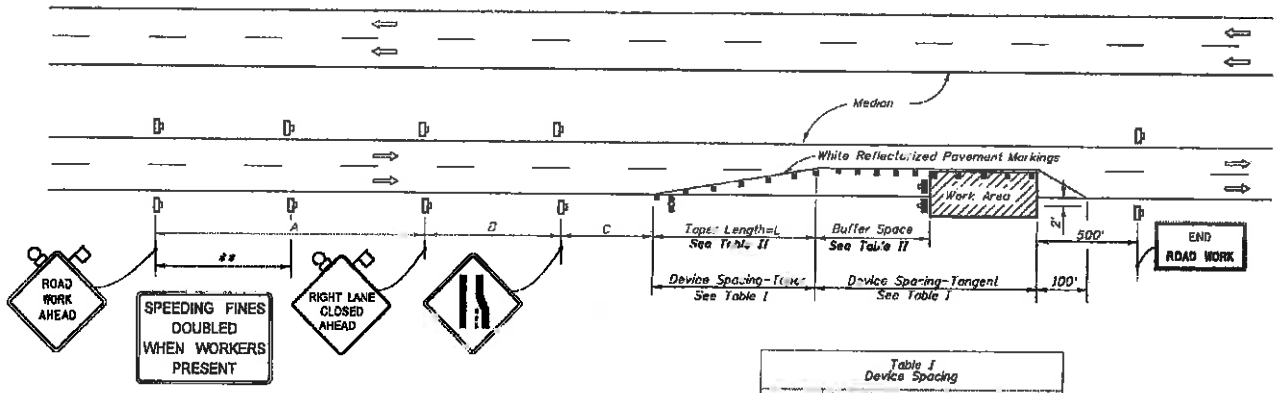

Table II
Buffer Space and Taper Length

Speed (mph)	Buffer Space Dist. (ft.)	Taper Length (12' Lateral Transition) L (ft.)	Notes (Merge)
25	155	125	$L=\frac{WS^2}{60}$
30	200	180	
35	250	245	
40	305	320	
45	360	540	
50	425	600	L=WS
55	495	660	
60	570	720	
65	645	780	
70	730	840	

When Buffer Space cannot be attained due to geometric constraints, the greatest attainable length shall be used, but not less than 200 ft.

For lateral transitions other than 12', use formula for L shown in the notes column. Where:
L = Length of taper in feet
W = Width of lateral transition in feet
S = Posted speed limit (mph)

Table I
Device Spacing

Speed (mph)	Max Distance Between Devices (ft.) Cones or Tubular Markers Taper	Tangent	Type I or Type II Barricades or Vertical Panels or Drums Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.) A	B	C
40 mph or less	200	200	200
45 mph	350	350	350
50 mph	500	500	500
*55 mph or greater	2640	1640	1000

* The ROAD WORK 1 MILE sign may be used as an alternate to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED ½ MILE sign may be used as an alternate to the RIGHT LANE CLOSED AHEAD sign.

** 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

GENERAL NOTES

1. Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
2. On undivided highways the median signs as shown are to be omitted.
3. When work is performed in the median lane on divided highways, the channelizing device plan is inverted and left lane closed and lane ends signs substituted for the right lane closed and lane end signs.

   The same applies to undivided highways with the following exceptions:
   (a) Work shall be confined within one median lane.
   (b) Additional barricades, cones, or drums shall be placed along the centerline abutting the work area and across the trailing end of the work area.

   When work on undivided highways occurs across the centerline so as to encroach on both median lanes, the inverted plan is applied to the approach of both roadways.
4. Signs and traffic control devices are to be modified in accordance with INTERMITTENT WORK STOPPAGE details (sheet 2 of 2) when no work is being performed and the highway is open to traffic.
5. The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
6. When paved shoulders having a width of 8 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the travel way. See Index No. 612 for shoulder taper formulas.
7. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
8. This TCZ plan does not apply when work is being performed in the middle lane(s) of a six or more lane highway. See Index No. 614.
9. For general TCZ requirements and additional information, refer to Index No. 600.

DURATION NOTES

1. Temporary white edgeline may be omitted for work operations less than 3 days.
2. Signs, arrow panel and buffer space may be omitted if all of the following conditions are met:
   a) Work operations are 60 minutes or less.
   b) Speed limit is 45 mph or less.
   c) No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
   d) Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
   e) Volume and complexity of the roadway has been considered.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF TRAVEL WAY.

SYMBOLS

- Work Area
- Sign With 18"x 18" (Min.) Orange Flag And Type B Light
- Channelizing Device (See Index No. 600)
- Type I Type II Or Type III Barricade Or Vertical Panel Or Drum (With Flashing Light)
- Work Zone Sign
- ADS Advance Warning Arrow Panel

3/15/11

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK			TRAFFIC CONTROL DETAIL	SHEET NO.
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID		
814	BROWARD	10-00249		LD-30

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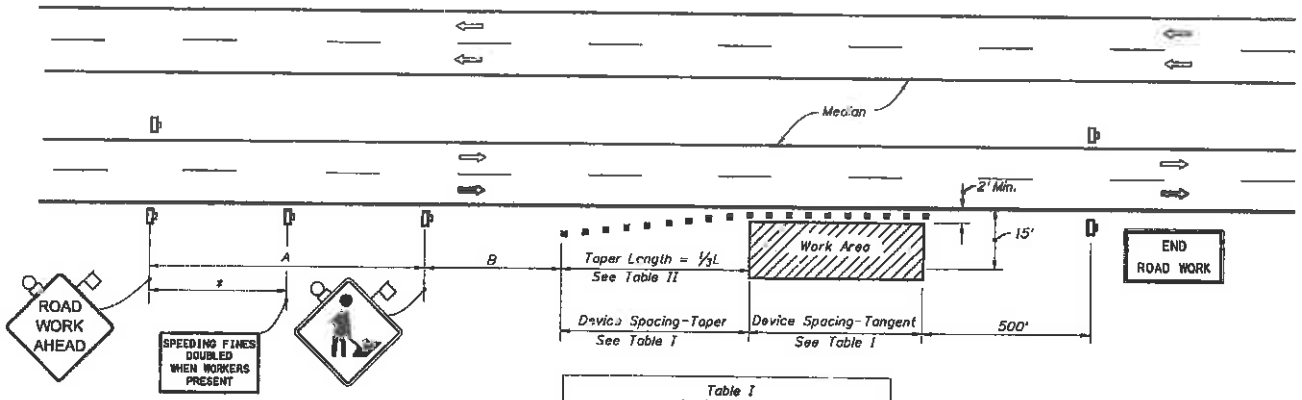


DISTANCE BETWEEN SIGNS		
Speed	Spacing (ft.)	
	A	B
40 mph or less	200	200
45 mph	350	350
50 mph or greater	500	500

* 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

Table I Device Spacing				
Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

Table II Taper Length = Shoulder				
Speed (mph)	1/3L (ft.)			Notes
	8' Shldr.	10' Shldr.	12' Shldr.	
25	28	35	42	
30	40	50	60	$L=\frac{WS^2}{60}$
35	55	68	82	
40	72	90	107	
45	120	150	180	
50	133	167	200	
55	147	183	220	
60	160	200	240	L=WS
65	173	217	260	
70	187	233	280	

8' minimum shoulder width.

1/3L = Length of shoulder taper in feet

W = Width of total shoulder in feet (combined paved and unpaved width)

S = Posted speed limit (mph)

SYMBOLS

- Work Area
- Sign With 18"x18" (Min.) Orange Flag And Type B Light
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Lane Identification + Direction of Traffic

GENERAL NOTES

1. If the work operation encroaches on the through traffic lanes or when four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), a flagger shall be provided and a FLAGGER sign shall be substituted for the WORKERS sign. The flagger shall be positioned at the point of vehicle entry or departure from the work area.
2. This TCZ plan also applies to work performed in the median more than 2' but less than 15' from the edge of travelway.
3. When work is being performed on a multilane undivided roadway the signs normally mounted in the median (as shown) shall be omitted.
4. WORKERS signs to be removed or fully covered when no work is being performed.
5. SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign.
6. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
7. For general TCZ requirements and additional information, refer to Index No. 600.

DURATION NOTES

1. Signs and channelizing devices may be omitted if all of the following conditions are met:
   a) Work operations are 60 minutes or less.
   b) Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.

3/17/2011

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MILLER LEGG
6301 N.W. 5th Way · Suite 1400 · Fort Lauderdale, Florida · 33309
954-491-2800 · Fax: 954-491-0723 · www.millerlegg.com
Cert. of Auth.: EB0007518 · Registered Records: Eric S. Czarniejewski PE-59102

CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
814	BROWARD	10-00249

TRAFFIC CONTROL DETAIL

SHEET NO. LD-31

SECTION NO: 86039000
S.R. NO(S): 814 (Atlantic Blvd)
COUNTY: Broward
FM NO.(S): 426010-1-58-01
426011-1-58-01

EXHIBIT C

MAINTENANCE PLAN FOR LANDSCAPE IMPROVEMENTS

This Exhibit forms an integral part of the DISTRICT FOUR (4) Amendment to the State of Florida Department of Transportation and The City of Coconut Creek Inclusive Maintenance Memorandum of Agreement between the State of Florida, Department of Transportation and the AGENCY.

Dated: March 8, 2011

MAINTENANCE PLAN
Landscape Improvements

Project State Road No(s):	**814**
Project Limits:	**MP 0.899 to MP 1.230 and MP 1.230 to MP 1.715**
FM No(s):	**426010-1-58-01 and 426011-1-58-01**
Maintaining Agency:	**City of Coconut Creek**
RLA of Record:	**Brian Shore**
Date:	**03-08-11**

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 the contract documents, and all other requirements set forth by the District 4 Operations Maintenance Engineer. The initial portion of the Maintenance Plan describes general maintenance requirements and recommendations. The concluding section provides recommendations prepared by the Registered Landscape Architect of Record specific to the attached approved plans.

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

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

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

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

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

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

Pruning:
All pruning, and the associated safety criteria, shall be performed according to American National Standard Institute (ANSI) A300 standards and shall be supervised by an International Society of Arboriculture (ISA) Certified Arborist. Pruning shall be carried out with the health and natural growth of plant materials in mind, to specific pruning heights maintaining clear visibility for motorists, and provide vertical clearance for pedestrian, bicyclist, and truck traffic where applicable. Visibility windows must be maintained free of view obstructions, and all trees and palms (with particular attention to fronds and fruit) must be 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 are noted on the planting plans. (See Part II. 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) are to be maintained at a height in compliance with *FDOT Design Standards* Index 546; Page 6 of 6, Window Detail. Vertical tree heights must meet *FDOT Maintenance Rating Program* (MRP) standards.

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

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

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

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

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

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

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.

II. Specific Project Site Maintenance Requirements and Recommendations:

Hardscape Surfaces: a. Integrally-Colored Overlay surfaces; b. Pavers.

Routine maintenance of hardscape surfaces shall include inspections to determine color stability, cleanliness, potential trip hazard issues or settling issues, and chipping / cracking or delamination problems.

Remove efflorescence from the surfaces, as needed, with a mild acid solution or efflorescence remover. Apply a colored curing compound after efflorescence removal, matching the color of the concrete or paver. Re-seal the surface (with a clear sealer) following the efflorescence removal and curing.

Color-conditioned concrete flatwork / horizontal surfaces should be maintained by sweeping. On overlay surfaces, use low-pressure water or scrub surfaces with a mild detergent to remove surface dirt. Heavily soiled areas may be cleaned by scrubbing with a stiff bristle brush and properly diluted, high-quality commercial detergent.

Re-seal overlay surfaces as necessary or after the sealer coat is weathered or worn from the surface. Sealer should be a clear industry-approved concrete sealer suitable for colored-concrete surfaces. Follow manufacturer's instruction on application procedures.

Repair damaged areas to concrete surfaces (overlay areas) as needed with an integrally-colored concrete patch. Patch color to match existing surface color.

For pavers: sweep polymer sand in between the joints periodically or replace joint sand as needed. Remove weeds that appear in the paver field or between paver joints. Re-set pavers, as necessary, that become loose. Replace damaged pavers with a matching paver (match color and type). Seal pavers as needed with an industry-approved sealer.

REFERENCES

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

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

Americans with Disabilities Act (ADA) (ADAAG)
http://www.ada.gov/NPRM2008/adastandards/adastds08.pdf

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 Plants*, available for purchase
http://www.doacs.state.fl.us/pi/pubs.html

Florida Department of Community Affairs (DCA), *Florida Board of Building Codes & Standards, 2007 Florida Building Code, Chapter 11 Florida Accessibility Code for Building Construction Part A*
http://www2.iccsafe.org/states/florida_codes/

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 544 Landscape Installation*
http://www.dot.state.fl.us/rddesign/rd/RTDS/10/544.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/10/546.pdf

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 600 Traffic Control through Work Zones*
http://www.dot.state.fl.us/rddesign/rd/rtds/10/600.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/10/700.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/2009/Volume1/zChap02.pdf

Florida Department of Transportation, *FDOT Standard Specifications for Road and Bridge Construction, Section 580 Landscape Installation*
ftp://ftp.dot.state.fl.us/LTS/CO/Specifications/SpecBook/2010Book/580.pdf

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

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

Florida Department of Transportation, *Maintenance Rating Program Standards*
http://www.dot.state.fl.us/statemaintenanceoffice/MRPHandbook2009Final.pdf

Florida Department of Transportation Outdoor Advertising Database
http://www2.dot.state.fl.us/rightofway/Default.aspx

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

Florida Power and Light (FPL), *Plant the Right Tree in the Right Place*
www.FPL/trees

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

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

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

U.S. Department of Transportation, Federal Highway Administration, *Manual on Uniform Traffic Control Devices*
http://www.mutcd.fhwa.dot.gov

SECTION NO: 86039000
S.R. NO(S): 814 (Atlantic Blvd)
COUNTY: Broward
FM NO.(S): 426010-1-58-01
426011-1-58-01

EXHIBIT D

APPROXMIATE COST FOR LANDSCAPE IMPROVEMENTS

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

Anticipated Terms of Separate Agreement

FM No. 426010-1-58-01

FDOT PARTICIPATION Via Separate Agreement	Up to	$200,000.00
Estimated Project Cost Dated March 16, 2011		$208,328.00

FM No. 426011-1-58-01

FDOT PARTICIPATION Via Separate Agreement	Up to	$300,000.00
Estimated Project Cost Dated March 16, 2011		$240,569.41

TOTAL APPROXIMATE PROJECT COST DATED MARCH 16, 2011		**$448,897.41**
TOTAL FDOT PARTICIPATION VIA SEPARATE AGREEMENT	**UP TO**	**$500,000.00**

OPINION OF PROBABLE COST

SR 814 / ATLANTIC BOULEVARD - CITY OF COCONUT CREEK

FM 426010-1-58-01

FROM WEST OF LYONS ROAD (WESTERN CITY LIMITS) (MP 0.889) TO LYONS ROAD (MP 1.230)

DETAILED QUANTITY SUMMARY

	QUANTITY	UNIT		TOTAL COST
MISCELLANEOUS PROJECT				
MOBILIZATION	1	LS	=	$6,698 54
CLEARING AND GRUBBING	1	LS	=	$2,232 86
MAINTENANCE OF TRAFFIC	1	LS	=	$3,349 27
SUBTOTAL			=	**$12,280 66**
LANDSCAPING				
LARGE CANOPY TREES & SOIL & STAKING & MULCH	12	EA	=	$35,000 00
FLOWERING CANOPY TREES & SOIL & STAKING & MULCH	3	EA	=	$11,200 00
ACCENT TREES IN BOSQUES & SOIL & STAKING & MULCH	28	EA	=	$26,100 00
PALMS & SOIL & STAKING & MULCH	28	EA	=	$9,450 00
HORIZONTAL COCOPLUM & SOIL & MULCH	210	EA	=	$3,570 00
BLUEBERRY FLAX LILY & SOIL & MULCH	0	EA	=	$0 00
PARSONS JUNIPER & SOIL & MULCH	135	EA	=	$1,620 00
DWARF YAUPON HOLLY & SOIL & MULCH	215	EA	=	$3,655 00
MUHLY GRASS & SOIL & MULCH	130	EA	=	$1,300 00
FAKAHATCHEE GRASS & SOIL & MULCH	130	EA	=	$1,300 00
PERFORMANCE TURF - SOD & SOIL	0 24	AC	=	$11,818 00
MOWING (DURING CONSTRUCTION)	0 47	AC	=	$5,000 00
LITTER REMOVAL & DISPOSAL	0 47	AC	=	$2,500 00
PLANT ESTABLISHMENT & MAINTENANCE	1	LS	=	$15,000 00
LANDSCAPING SUBTOTAL			=	**$124,513 00**
IRRIGATION				
PUMP STATION & CONTROLLER (shared cost)	1	EA	=	$6,250 00
WELL (shared cost)	1	EA	=	$2,250 00
IRRIGATION MAINLINE	1,358	LF	=	$5,433 33
LATERAL LINES & FITTINGS	2,873	LF	=	$5,746 00
BRIDGE CROSSING	0	LF	=	$0 00
HEADS & MISC RISERS & ACCESSORIES	143	EA	=	$2,850 00
REMOTE CONTROL VALVES & VALVE BOXES	8	EA	=	$1,200 00
CONTROL WIRE	2500	LF	=	$1,250 00
ISOLATION GATE VALVES & VALVE BOXES	2	EA	=	$350 00
SLEEVING	250	LF	=	$2,000 00
DIRECTIONAL BORE	315	LF	=	$12,600 00
IRRIGATION MAINTENANCE	1	LS	=	$4,000 00
IRRIGATION SUBTOTAL			=	**$43,929 33**
HARDSCAPE				
DECORATIVE OVERLAY - PATTERN CONCRETE MEDIAN NOSES	76	SY	=	$4,180 00
DECORATIVE OVERLAY - PATTERN CONCRETE BRIDGE MEDIAN	0	SY	=	$0 00
NEW HARDSCAPE TREATMENT - ARCHITECTURAL PAVERS	195	SY	=	$17,550 00
NEW HARDSCAPE TREATMENT - PATTERN CONCRETE OVERLAY	0	SY	=	$0 00
NEW HARDSCAPE TREATMENT - NEW CONCRETE BASE	0	SY	=	$0 00
NEW HARDSCAPE TREATMENT - NEW LIMEROCK SUBBASE	195	SY	=	$4,875 00
HARDSCAPE MAINTENANCE	1	LS	=	$1,000 00
HARDSCAPE SUBTOTAL			=	**$27,605.00**
TOTAL PROJECT				**$208,328.00**

OPINION OF PROBABLE COST

SR 814 / ATLANTIC BOULEVARD - CITY OF COCONUT CREEK

FM 426011-1-58-01

FROM LYONS ROAD (MP 1.230) TO FLORIDA'S TURNPIKE (MP 1.715)

DETAILED QUANTITY SUMMARY

	QUANTITY	UNIT		TOTAL COST
MISCELLANEOUS PROJECT				
MOBILIZATION	1	LS	=	$9,279 31
CLEARING AND GRUBBING	1	LS	=	$3,093 10
MAINTENANCE OF TRAFFIC	1	LS	=	$4 633 66
SUBTOTAL			=	**$17,012.08**
LANDSCAPING				
LARGE CANOPY TREES & SOIL & STAKING & MULCH	8	EA	=	$35,000 00
FLOWERING CANOPY TREES & SOIL & STAKING & MULCH	9	EA	=	$11,200 00
ACCENT TREES IN BOSQUES & SOIL & STAKING & MULCH	14	EA	=	$23,100 00
PALMS & SOIL & STAKING & MULCH	14	EA	=	$9 450 00
HORIZONTAL COCOPLUM & SOIL & MULCH	195	EA	=	$3,315 00
BLUEBERRY FLAX LILY & SOIL & MULCH	0	EA	=	$0 00
PARSONS JUNIPER & SOIL & MULCH	95	EA	=	$1,140 00
DWARF YAUPON HOLLY & SOIL & MULCH	350	EA	=	$3,950 00
MUHLY GRASS & SOIL & MULCH	65	EA	=	$650 00
FAKAHATCHEE GRASS & SOIL & MULCH	65	EA	=	$650 00
PERFORMANCE TURF - SOD & SOIL	0 24	AC	=	$11,818 00
MOWING (DURING CONSTRUCTION)	0 47	AC	=	$5,000 00
LITTER REMOVAL & DISPOSAL	0 47	AC	=	$2 500 00
PLANT ESTABLISHMENT & MAINTENANCE	1	LS	=	$15 000 00
LANDSCAPING SUBTOTAL			=	**$124,773.00**
IRRIGATION				
PUMP STATION & CONTROLLER	1	EA	=	$6,250 00
WELL	1	EA	=	$2,250 00
IRRIGATION MAINLINE	1,358	LF	=	$5 435 33
LATERAL LINES & FITTINGS	2,873	LF	=	$5,748 00
BRIDGE CROSSING	150	LF	=	$2,250 00
HEADS & MISC RISERS & ACCESSORIES	143	EA	=	$2,850 00
REMOTE CONTROL VALVES & VALVE BOXES	5	EA	=	$1,200 00
CONTROL WIRE	2500	LF	=	$1,250 00
ISOLATION GATE VALVES & VALVE BOXES	2	EA	=	$350 00
SLEEVING	250	LF	=	$2,000 00
DIRECTIONAL BORE	315	LF	=	$12,600 00
IRRIGATION MAINTENANCE	1	LS	=	$4 000 00
IRRIGATION SUBTOTAL			=	**$46,179.33**
HARDSCAPE				
DECORATIVE OVERLAY - PATTERN CONCRETE MEDIAN NOSES	76	SY	=	$4,180 00
DECORATIVE OVERLAY - PATTERN CONCRETE BRIDGE MEDIAN	295	SY	=	$16,225 00
NEW HARDSCAPE TREATMENT - ARCHITECTURAL PAVERS	207	SY	=	$18,630 00
NEW HARDSCAPE TREATMENT - PATTERN CONCRETE OVERLAY	47	SY	=	$2,585 00
NEW HARDSCAPE TREATMENT - NEW CONCRETE BASE	47	SY	=	$2,585 00
NEW HARDSCAPE TREATMENT - NEW LIMEROCK SUBBASE	256	SY	=	$6,400 00
HARDSCAPE MAINTENANCE	1	LS	=	$2,000 00
HARDSCAPE SUBTOTAL			=	**$52,605.00**
TOTAL PROJECT				**$240,569.41**

RESOLUTION NO. 2009-42

A RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE THE ATTACHED INCLUSIVE MAINTENANCE AGREEMENT BETWEEN THE CITY OF COCONUT CREEK AND FLORIDA DEPARTMENT OF TRANSPORTATION FOR LANDSCAPE, HARDSCAPE, AND IRRIGATION ALONG STATE ROAD 7 FROM MILE POST 22.700 (NORTH OF THE SAWGRASS EXPRESSWAY) TO MILE POST 24.591 (BROWARD COUNTY LINE), AND TO REPLACE AND SUPERSEDE ALL PREVIOUS MAINTENANCE AGREEMENTS FOR STATE ROADS WITHIN THE CITY; PROVIDING AN EFFECTIVE DATE

WHEREAS, the Florida Department of Transportation (FDOT) has approved two matching Florida Highway Beautification Grants for $200,000 and $250,000 for landscape improvements along State Road 7 from north of the Sawgrass Expressway to the Broward County line; and

WHEREAS, FDOT requires the City to enter into a maintenance agreement in order to receive the grant funds; and

WHEREAS, the City desires to enter into an agreement with FDOT to complete enhancements along State Road 7; and

WHEREAS, FDOT is requiring that all previous maintenance agreements with the City be consolidated into an inclusive agreement to include all State Roads within the City; and

WHEREAS, the City Commission finds and determines it to be in the best interest of the residents of Coconut Creek to enter into an inclusive agreement with FDOT for maintenance of all State Roads within the City;

NOW THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF COCONUT CREEK, FLORIDA:

Section 1: That the City Manager is hereby authorized to execute the attached Inclusive Maintenance Agreement between the City and the Florida Department of Transportation.

Section 2: That this Resolution shall be in full force and effect immediately upon its adoption.

Adopted this 23rd day of April, 2009 on a motion by Commissioner Tooley and seconded by Vice Mayor Aronson.

Ayes	5
Nays	0
Absent or	
Abstaining	0

Marilyn Gerber, Mayor

Attest:

Barbara S. Price, MMC
City Clerk

Gerber	Aye
Aronson	Aye
Sarbone	Aye
Tooley	Aye
Belvedere	Aye

SR:ps:mb
\\Pdc\data\Development Services\MBowers\Documents\Project Coordinator\Resolutions\Res688 maintenance agreement state rd 7 fdot cck.doc
4-13-09

SECTION NO:	86100
S.R. NO.(S):	7
COUNTY:	Broward
PERMIT NO.(S):	13-L-491-0007

DISTRICT FOUR (4) AMENDMENT NUMBER FOUR (4)
TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION AND
CITY OF COCONUT CREEK LANDSCAPE
INCLUSIVE MEMORANDUM OF AGREEMENT

This is Amendment Number Four (4) to the Agreement dated May 27, 2009, made and entered into this 5th day of December 2013 by and between the State of Florida Department of Transportation hereinafter called the DEPARTMENT and the **City of Coconut Creek**, a municipal subdivision of the State of Florida, hereinafter called the AGENCY.

WHEREAS, the parties entered into the Inclusive Maintenance of Agreement dated, May 27, 2009 for the purpose of maintaining the landscape improvements by the AGENCY on various roads including State Road 7 (US 441) and;

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

WHEREAS, the AGENCY by Resolution No. 2013-119 dated Nov. 14, 2013 attached hereto and by this reference made a part hereof, desires to enter into this Agreement and authorized 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:

1. The Inclusive Agreement dated May 27, 2009 shall be modified by substituting the following for paragraph number 8, page 7 of 18:

   ADJACENT PROPERTY OWNER IMPROVEMENTS

   The DEPARTMENT may allow an adjacent property owner to construct additional landscape improvements within the limits of the right of way identified in Exhibit A of this document that the AGENCY shall be responsible for maintaining under this agreement subject to the following conditions:

   (a) Plans for any new landscape improvements shall be subject to approval by the DEPARTMENT and shall require a valid permit attached with a letter of consent to said plans by the AGENCY. The plans shall not be changed or deviated from without written approval by the DEPARTMENT and the AGENCY.

(b) All landscape improvements shall be developed and implemented in accordance with appropriate state safety and roadway design standards.

(c) The AGENCY agrees to comply with the requirements of the Agreement with regard to any additional landscape improvements installed by an adjacent owner.

(d) If the Adjacent Property Owner's landscape improvements include additional maintenance requirements, the DEPARTMENT and the AGENCY shall agree in writing and require signature from the responsible AGENCY'S City Manager or Mayor and the DEPARTMENT shall enter into an Agreement Amendment describing the additional requirements.

2. Pursuant to the provision included in the Inclusive Agreement dated May 27, 2009, Paragraph 8, page 7 of 18. The AGENCY has agreed to allow the Adjacent Property Owner, Casa Palma to construct additional landscape improvements or to modify an improvement located as indicated in **Exhibit "A"** State Road 7 (US 441) between (M.P.22.97) and (M.P. 23.10) in accordance with the plans attached as **Exhibit "B".**

3. The AGENCY shall agree to maintain the landscape improvements in the Inclusive Agreement described above and as provided in accordance with the Maintenance Plan, **Exhibit "E"** of the original agreement.

4. The DEPARTMENT shall modify the Inclusive Agreement dated May 27, 2009, by amending **Exhibit "C"** to include in the list of "Agreements Superseded By This Agreement" the following agreement;

   2/8/01 State Road 7 (US 441) eastern right-of-way adjacent to the McJames PCD/Home Depot, maintenance shall include landscape and irrigation systems. Resolution Number 2001-22 (2/8/01).

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

Exhibits

Exhibit A - Landscape Improvements Limits and Maintenance Boundaries and Location Map

Exhibit B - Landscape Improvement Plans

In Witness whereof, the parties hereto have executed with this Amendment effective the 5th day December year written and approved.

City of Coconut Creek
a municipal corporation

By: Rebecca A. Tooley
Mayor/Manager

Attest: Jacquelyn Cook (SEAL)
Clerk

Legal Review
CITY ATTORNEY PAUL S. STUART
Attorney

11/25/13
Date

State of Florida
Department of Transportation

By: Gary O'Reilly
Director of Transportation Development

Attest: Lynn Lewis (SEAL)
Executive Secretary

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

Legal Review
Office of the General Counsel

12/4/2013
Date

SECTION NO:	86100
S.R. NO.(S):	7
COUNTY:	Broward
PERMIT NO.(S):	13-L-491-0007

EXHIBIT A

LANDSCAPE IMPROVEMENTS LIMITS AND MAINTENANCE BOUNDARIES AND LOCATION MAP

I. LANDSCAPE PROJECT LOCATION:

State Road 7 (US 441) from (M.P. 22.97) to (M.P. 23.10)

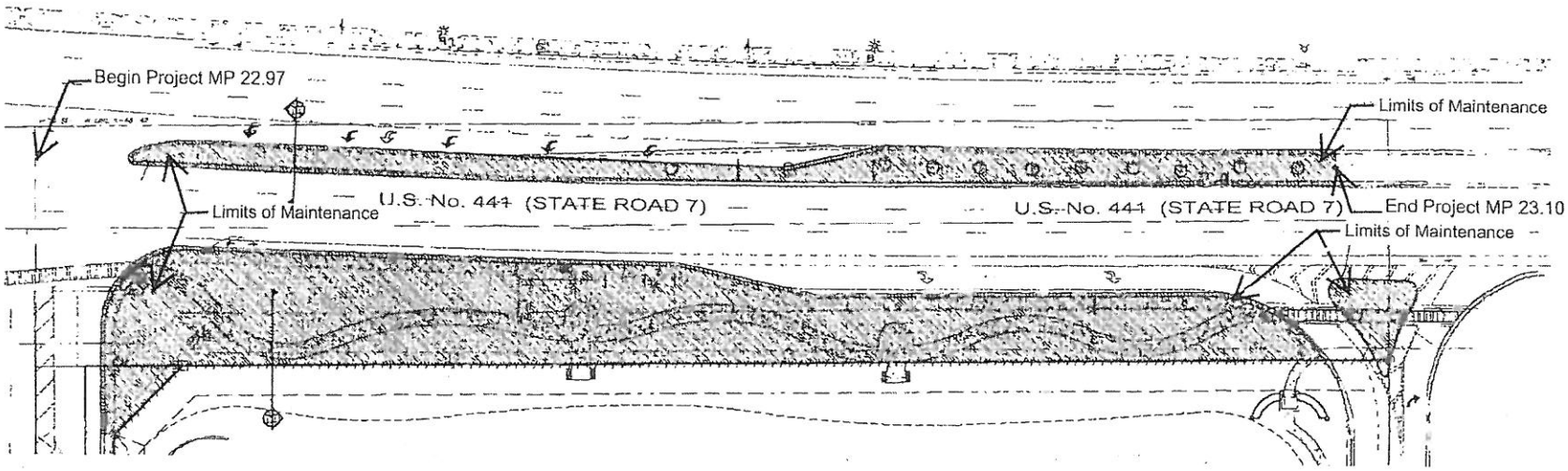
II. INCLUSIVE LIMITS OF LANDSCAPE IMPROVEMENTS MAINTENANCE FOR State Road 7 (US 441):

State Road 7 (US 441)
M.P. 20.861 (Winston Park / Creekside Drive) to M.P. 24.591 (Broward / Palm Beach County Line)

III. LOCATION MAP OF THE PROJECT:

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

Please See Attached



SCALE: NOT TO SCALE

LIMITS OF MAINTENANCE BY THE CITY OF COCONUT CREEK

ARCHITECTURAL ALLIANCE

CASA PALMA

COCONUT CREEK, FLORIDA

Limits of Maintenance Plan

07/30/13

1165

MP-1

SECTION NO:	86100
S.R. NO.(S):	7
COUNTY:	Broward
PERMIT NO.(S):	13-L-491-0007

EXHIBIT B

LANDSCAPE IMPROVEMENT PLANS

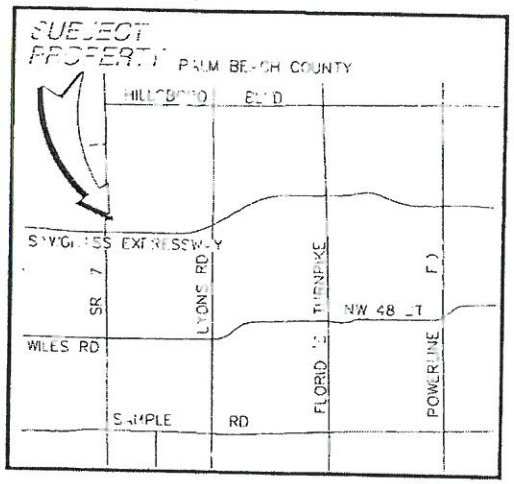
The Adjacent Property Permitee agrees to install the Project in accordance with the plans and specifications attached hereto and incorporated herein.

Please see attached plans prepared by: **Hugh Johnson, RLA**
Architectural Alliance

Dated August 20, 2013

CASA PALMA US 441
LANDSCAPE PLANS

SECTION 6 T48S-R42E



LOCATION MAP
SCALE: N.T.S.

LAND DESCRIPTION

Parcel "B" of NORTHWEST ... PLAT OF TOWNSHIP ... according to the Plat thereof as recorded in Plat Book 143, Page ... of the Public Records of Broward County, Florida.

Together with ... rights of ingress/egress as set forth in that ... Ingress, Egress, Utility and Storm Water Drainage Easement recorded in Official Records Book ... Page ..., as amended by Amendment recorded in Official Records Book ... Page ..., as amended by Amendment recorded in Official Records Book ... Page ..., all of the Public Records of Broward County, Florida.

PERMIT NO: 2013-L-497-00097
SECTION NO: 86100
STATE ROAD NO: 7

I HEREBY CERTIFY THAT THE ABOVE AND FOREGOING PLAN WAS PREPARED UNDER MY DIRECTION AND IS TO THE BEST OF MY KNOWLEDGE AND BELIEF IN COMPLIANCE WITH THE INTENT OF THE STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS SET FORTH BY THE FLORIDA DEPARTMENT OF TRANSPORTATION AND LOCAL GOVERNMENT LAWS AND ORDINANCES AS SET FORTH BY THE STATE OF FLORIDA LEGISLATURE, CHAPTER 72-328.

ARCHITECTURAL ALLIANCE

FDOT Landscape Plan

25 DEVELOPMENT, LLC
COCONUT CREEK, FLORIDA

FDOT

07/19/13

1165

LP-1

FDOT Landscape Plan
ARCHITECTURAL ALLIANCE
LP-2

U.S. No. 441 (STATE ROAD 7)
FOR CONT. SEE BELOW LEFT

U.S. No. 441 (STATE ROAD 7)
FOR CONT. SEE ABOVE RIGHT
NOTE: ANY EXISTING IRRIGATION IN MEDIAN DAMAGED BY TURN LANE EXPANSION TO BE REPAIRED TO FULLY OPERATIONAL CONDITION
TURN LANE EXPANSION ON STATE RD 7 & SIDEWALK IMPROVEMENTS ARE SUBMITTED UNDER SEPARATE ENGINEERING PERMIT #2013-A-01-0023
SCALE: 1" = 20'-0"

NOTES:

GENERAL PLANTING REQUIREMENTS

All trees shown for plant material on the plans are to be considered Minimum. All plant material must meet or exceed these minimum requirements for both height and spread. Any other requirements for specific Caliper as noted on the plans will also be required for final acceptance.

All plant material furnished by the landscape contractor shall be Florida #1 or better as established by "Grades and Standards for Florida Nursery Plants" and "Grades and Standards for Florida Nursery Trees". All material shall be installed as per CSI specifications.

All plant material shall be included herein shall be warranted by the landscape contractor for a minimum period as follows: All trees and palms for 12 months all shrubs, vines, groundcovers and miscellaneous planting materials for 90 days, and all lawn areas for 60 days after final acceptance by the owner or owner's representative.

All plant materials shall be placed in a planting soil that is delivered to the site in a clean loose and friable condition. All soil shall have a soil balance sheet which Soil must be free of all weeds, stones, clods, and other debris that will be detrimental to plant growth.

Twelve inches (12") of planting soil SHALL spread that is verified and backfill the root ball of all trees and palms, and 1 cubic yard per 50 bedding or groundcover plants.

All landscape areas shall be covered with Argentine Bahia sod installed over finished grade. When settled Contractor shall ensure that no bare spots

All plant material shall be thoroughly watered in at the time of planting with dry planting permitted. All plant materials shall be planted such that the top of the plant ball is flush with the surrounding grade.

All landscape areas shall be irrigated with an automatic underground irrigation system. All irrigation systems shall be designed to provide adequate coverage to all landscape areas. All heads shall be adjusted to 100% overlap as per manufacturers recommendations and performance standards of the governing municipality. Each system shall be installed with a rain sensor.

It is the sole responsibility of the landscape contractor to ensure that all new plantings receive adequate water during the establishment and during all plant warranty periods. Deep watering of all new trees and palms and any supplemental watering that may be required to assure normal rainfall and site irrigation is mandatory to ensure proper plant development and shall be part of the work.

All plant materials shall be mulched with fertilizer, which shall be Suite Aspect, 3 as a complete fertilizer containing the required minimum of trace elements in addition to N-P-K, of which 50% of the N shall be derived from an organic source as per FDA specifications.

Contractors are responsible for coordinating with the owners and appropriate utility companies to assist in locating and verifying all underground and other plant to excavation.

All ideas, designs and plans indicated or represented by this drawing are owned by and are the exclusive property of Architectural Alliance.

The plan takes precedence over the plant list.

SPECIAL INSTRUCTIONS

Grading: New and berm grading to +/- 1 foot (1') shall be supplied by the general contractor. All finishes site grading and final elevations shall be provided by the landscape contractor.

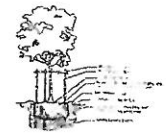
All sod areas as indicated on the planting plan shall receive Stenotaphrum secundatum, St. Augustine Palmetto solid sod. It shall be the responsibility of the landscape contractor to enforce in the bid, the repair of any sod which may be damaged from the landscape operations.

#	Species	O.A. Height	Condition	Trunk Circumference at 2' Height	Cal. Trunk	Status
1	Live Oak	11'	Fair	4.0"	5"	To be retained
2	Live Oak	11'	Fair	5.0"	5"	To be relocated
3	Live Oak	9'	Fair	5.4"	5"	To be removed
4	Live Oak	12'	Fair	1.0"	4"	To remain
5	Live Oak	12'	Fair	1.0"	4"	To remain
6	Live Oak	12'	Fair	1.0"	4"	To remain
7	Live Oak	12'	Fair	1.0"	4"	To remain
8	Live Oak	12'	Fair	1.0"	4"	To remain
9	Live Oak	12'	Fair	1.0"	4"	To remain
10	Live Oak	12'	Fair	1.0"	4"	To remain
11	Live Oak	12'	Fair	1.0"	4"	To remain
12	Live Oak	12'	Fair	1.0"	4"	To remain
13	Live Oak	12'	Fair	1.0"	4"	To remain
14	Live Oak	12'	Fair	1.0"	4"	To remain
15	Live Oak	12'	Fair	1.0"	4"	To remain
16	Live Oak	12'	Fair	1.0"	4"	To remain
17	Live Oak	12'	Fair	1.0"	4"	To remain
18	Live Oak	12'	Fair	1.0"	4"	To remain
19	Live Oak	12'	Fair	1.0"	4"	To remain
20	Live Oak	12'	Fair	1.0"	4"	To remain
21	Live Oak	12'	Fair	1.0"	4"	To remain
22	Live Oak	12'	Fair	1.0"	4"	To remain
23	Live Oak	12'	Fair	1.0"	4"	To remain
24	Live Oak	12'	Fair	1.0"	4"	To remain
25	Live Oak	12'	Fair	1.0"	4"	To remain
26	Live Oak	12'	Fair	1.0"	4"	To remain
27	Live Oak	12'	Fair	1.0"	4"	To remain
28	Live Oak	12'	Fair	1.0"	4"	To remain
29	Live Oak	12'	Fair	1.0"	4"	To remain
30	Live Oak	12'	Fair	1.0"	4"	To remain
31	Live Oak	12'	Fair	1.0"	4"	To remain
32	Live Oak	12'	Fair	1.0"	4"	To remain
33	Live Oak	12'	Fair	1.0"	4"	To remain
34	Live Oak	12'	Fair	1.0"	4"	To remain
35	Live Oak	12'	Fair	1.0"	4"	To remain
36	Live Oak	12'	Fair	1.0"	4"	To remain
37	Live Oak	12'	Fair	1.0"	4"	To remain
38	Live Oak	12'	Fair	1.0"	4"	To remain
39	Live Oak	12'	Fair	1.0"	4"	To remain
40	Live Oak	12'	Fair	1.0"	4"	To remain
41	Live Oak	12'	Fair	1.0"	4"	To remain
42	Live Oak	12'	Fair	1.0"	4"	To remain
43	Live Oak	12'	Fair	1.0"	4"	To remain
44	Live Oak	12'	Fair	1.0"	4"	To remain
45	Live Oak	12'	Fair	1.0"	4"	To remain
46	Live Oak	12'	Fair	1.0"	4"	To remain
47	Live Oak	12'	Fair	1.0"	4"	To remain
48	Live Oak	12'	Fair	1.0"	4"	To remain
49	Live Oak	12'	Fair	1.0"	4"	To remain
50	Live Oak	12'	Fair	1.0"	4"	To remain
51	Live Oak	12'	Fair	1.0"	4"	To remain
52	Live Oak	12'	Fair	1.0"	4"	To remain
53	Live Oak	12'	Fair	1.0"	4"	To remain
54	Live Oak	12'	Fair	1.0"	4"	To remain
55	Live Oak	12'	Fair	1.0"	4"	To remain
56	Live Oak	12'	Fair	1.0"	4"	To remain
57	Live Oak	12'	Fair	1.0"	4"	To remain
58	Live Oak	12'	Fair	1.0"	4"	To remain
59	Live Oak	12'	Fair	1.0"	4"	To remain
60	Live Oak	12'	Fair	1.0"	4"	To remain
61	Live Oak	12'	Fair	1.0"	4"	To remain
62	Live Oak	12'	Fair	1.0"	4"	To remain
63	Live Oak	12'	Fair	1.0"	4"	To remain
64	Live Oak	12'	Fair	1.0"	4"	To remain
65	Live Oak	12'	Fair	1.0"	4"	To remain
66	Live Oak	12'	Fair	1.0"	4"	To remain
67	Live Oak	12'	Fair	1.0"	4"	To remain
68	Live Oak	12'	Fair	1.0"	4"	To remain
69	Live Oak	12'	Fair	1.0"	4"	To remain
70	Live Oak	12'	Fair	1.0"	4"	To remain
71	Live Oak	12'	Fair	1.0"	4"	To remain
72	Live Oak	12'	Fair	1.0"	4"	To remain
73	Live Oak	12'	Fair	1.0"	4"	To remain
74	Live Oak	12'	Fair	1.0"	4"	To remain
75	Live Oak	12'	Fair	1.0"	4"	To remain
76	Live Oak	12'	Fair	1.0"	4"	To remain
77	Live Oak	12'	Fair	1.0"	4"	To remain
78	Live Oak	12'	Fair	1.0"	4"	To remain
79	Live Oak	12'	Fair	1.0"	4"	To remain
80	Live Oak	12'	Fair	1.0"	4"	To remain
81	Live Oak	12'	Fair	1.0"	4"	To remain
82	Live Oak	12'	Fair	1.0"	4"	To remain
83	Live Oak	12'	Fair	1.0"	4"	To remain
84	Live Oak	12'	Fair	1.0"	4"	To remain
85	Live Oak	12'	Fair	1.0"	4"	To remain
86	Live Oak	12'	Fair	1.0"	4"	To remain
87	Live Oak	12'	Fair	1.0"	4"	To remain
88	Live Oak	12'	Fair	1.0"	4"	To remain
89	Live Oak	12'	Fair	1.0"	4"	To remain
90	Live Oak	12'	Fair	1.0"	4"	To remain
91	Live Oak	12'	Fair	1.0"	4"	To remain
92	Live Oak	12'	Fair	1.0"	4"	To remain
93	Live Oak	12'	Fair	1.0"	4"	To remain
94	Live Oak	12'	Fair	1.0"	4"	To remain
95	Live Oak	12'	Fair	1.0"	4"	To remain
96	Live Oak	12'	Fair	1.0"	4"	To remain
97	Live Oak	12'	Fair	1.0"	4"	To remain
98	Live Oak	12'	Fair	1.0"	4"	To remain
99	Live Oak	12'	Fair	1.0"	4"	To remain
100	Live Oak	12'	Fair	1.0"	4"	To remain

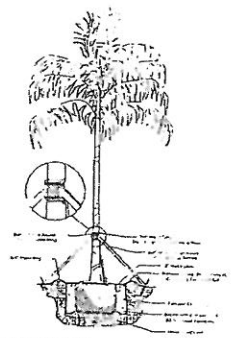
PLANT LIST

Code	Drought	QTY	Botanical Name / Common Name	Specifications
TREES / PALMS				
[illegible]	M	12	Acacia [illegible]	[illegible]
[illegible]	M	[illegible]	Cassia [illegible] 'Senna' Silver Buttonwood	[illegible]
QV	M	2	Quercus [illegible] Live Oak	[illegible]
SHRUBS/GROUNDCOVERS				
BSD	M	[illegible]	Bougainvillea 'Double Dwarf' / Dwarf Red Bougainvillea	[illegible]
[illegible]	M	19	Cassia x [illegible] 'Purple Cassia'	[illegible]
CDE	M	41	Chrysobalanus icaco 'Horizontal' Horizontal Cocoplum	[illegible]
CID	M	249	Ilex [illegible] 'Compacta' Dwarf Yaupon Holly	[illegible]
DMS	M	162	Dracaena reflexa 'Gold Mound' Gold Mound Dracaena	[illegible]
JMG	M	693	Ficus microcarpa 'Green Island' Green Island Ficus	[illegible]
SDD	M	48	Xanthorrhoea preissii Dwarf Palmetto	[illegible]
MISCELLANEOUS				
SOD	M	sq ft	Pasp[illegible] notatum 'Argentine' Bahia Sod	[illegible]
	as needed		Sod	[illegible]

Florida-Friendly Plants
M Medium Drought Tolerance
L Low Drought Tolerance



Small Tree Planting Detail



Palm Planting Detail

ARCHITECTURAL ALLIANCE

Plant List, Notes and Details

[illegible] DE CLOPHUT, LLC
COCONUT CREEK, FLORIDA

Sheet Name
Plant List
Notes
& Details

Date
[illegible]/13

Project Number
1165

Drawing Number
LP-3

Sheet [illegible] of [illegible]

RESOLUTION NO. 2013-119

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF COCONUT CREEK, FLORIDA, AUTHORIZING THE CITY MANAGER TO EXECUTE THE ATTACHED AMENDMENT TO THE INCLUSIVE MAINTENANCE AGREEMENT, DATED MAY 27, 2009, BETWEEN THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AND THE CITY OF COCONUT CREEK FOR THE MAINTENANCE OF LANDSCAPE, HARDSCAPE, AND IRRIGATION IMPROVEMENTS ALONG VARIOUS STATE ROADS; PROVIDING AN EFFECTIVE DATE

WHEREAS, In May of 2009, the City entered into an Inclusive Maintenance Agreement with the Florida Department of Transportation (FDOT) for the purpose of maintaining certain landscape, hardscape, and irrigation improvements on various State Roads, including State Road 7; and

WHEREAS, MCA Casa Palma Owner, LLC wishes to install landscape and pedestrian improvements as shown and listed in the attached Amendment to said Inclusive Maintenance Agreement, located within right-of-way for State Road 7 and controlled by FDOT; and

WHEREAS, FDOT will only accept an agreement for said work and maintenance from the City as the responsible public entity; and

WHEREAS, MCA Casa Palma Owner, LLC, has agreed to accept responsibility to complete and maintain the landscape and pedestrian improvements by separate agreement;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF COCONUT CREEK, FLORIDA:

Section 1: That the City Manager is hereby authorized to execute the attached Amendment to the Inclusive Maintenance Agreement between FDOT and the City.

Section 2: That this Resolution shall be in full force and effect immediately upon its passage and adoption.

Adopted this 14th day of November, 2013 on a motion by Vice Mayor Aronson and seconded by Commissioner Belvedere.

Ayes	4
Nays	0
Absent or	
Abstaining	1

Rebecca A. Tooley

Rebecca A. Tooley, Mayor

Attest:

Jacquelyn Cook

Jacquelyn Cook, CMC
Acting City Clerk

Tooley	Aye
Aronson	Aye
Sarbone	Absent
Belvedere	Aye
Welch	Aye

WSS/jw
S:\Data\Development Services\Common\Documents\PLANNING & ZONING\Project Coordinator\Resolutions\Res813 Agreement with FDOT and City for Casa.docx
10-28-13

SECTION No.(s): 86120
S.R. No.(s): 810
FM No: 437221-1-74-01
COUNTY: BROWARD

DISTRICT FOUR (4) AMENDMENT NUMBER FIVE (5) TO STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION LANDSCAPE INCLUSIVE MEMORANDUM OF AGREEMENT

THIS AMENDMENT Number Five (5) to the Agreement dated May 27, 2009, made and entered into this 10th day of June 2015 by and between the State of Florida Department of Transportation hereinafter called the DEPARTMENT and the CITY OF COCONUT CREEK, a municipal subdivision of the State of Florida, hereinafter called the AGENCY.

WITNESSETH

WHEREAS, the parties entered into the Landscape Inclusive Maintenance of Agreement dated, May 27, 2009 for the purpose of maintaining the landscape improvements by the AGENCY on various roads including State Road 810 (Hillsboro Boulevard); and,

WHEREAS, the DEPARTMENT and the AGENCY have agreed to add additional landscape to be installed on State Road 810 (Hillsboro Boulevard) in accordance with the above referenced Agreement; and,

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

1. Pursuant to paragraph 7 of the Landscape Inclusive Maintenance Memorandum of Agreement for State Road 810 (Hillsboro Boulevard) dated May 27, 2009, the DEPARTMENT will allow the AGENCY to construct additional landscape improvements or to modify an improvement located as indicated in **Exhibit "A"**, State Road 810 (Hillsboro Boulevard) From State Road 7 (US 441) (M.P.0.00) to State Road 91 (Florida Turnpike) (M.P. 2.00). In accordance with the plans attached as **Exhibit "B".**

2. The AGENCY shall agree to maintain the additional landscape improvements in the Agreement described above according the **Exhibit "C"** Maintenance Plan, attached to this Amendment.

3. The DEPARTMENT agrees to enter into a contract to have installed said landscape improvements for an amount as indicated in **Exhibit "D"** not to exceed $313,977.00.

4. Pursuant to Exhibit "A" of the Landscape Inclusive maintenance Memorandum of Agreement for State Road 810 (Hillsboro Boulevard) dated May 27, 2009, the DEPARTMENT and the AGENCY agree to modify the limits of maintenance listed in the on State Road 810 (Hillsboro Boulevard) to State Road 810 (Hillsboro Boulevard) from State Road 7 (US 441) (M.P.0.00) to State Road 91 (Florida Turnpike) (M.P. 2.00).

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

LIST OF EXHIBITS

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

In Witness whereof, the parties hereto have executed with this Amendment effective the 26th day May, 2015 year written and approved.
10th June 2015

CITY OF COCONUT CREEK

By: _____
Mary C. Blasi, City Manager

Attest: _____ (SEAL)
Leslie May, City Clerk

on behalf of

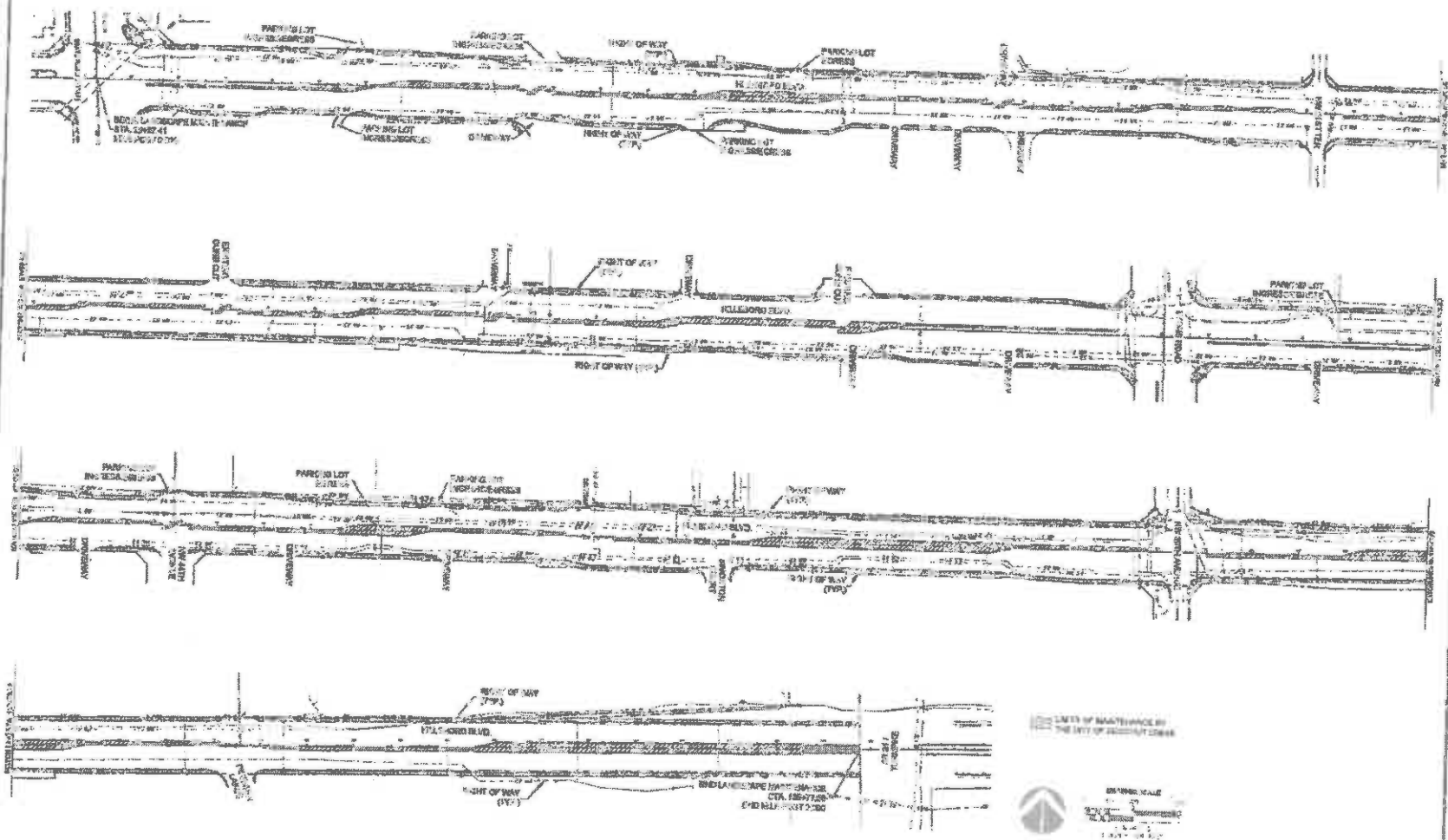
Legal Review _____ Date 05/21/15
Terrill C. Pyburn, City Attorney

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

By: _____
Transportation Development Director

Attest: _____ (SEAL)
Executive Secretary

Legal Review _____ Date 6/10/2015
Office of the General Counsel



LIMITS OF MAINTENANCE

ON HILLSBORO BOULEVARD

CITY OF COCONUT CREEK, BROWARD COUNTY, FLORIDA

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

FINANCIAL PROJECT ID #: 4722[illegible]-74-01

COHEN-MILLER

HILLSBORO BLVD LANDSCAPE IMPROVEMENTS

COCONUT CREEK, FLORIDA

FOR: CITY OF COCONUT CREEK

L5.00

SECTION No.(s): 86120
S.R. No.(s): 810
FM No: 437221-1-74-01
COUNTY: BROWARD

EXHIBIT A

LANDSCAPE IMPROVEMENTS PROJECT LIMITS

MAINTENANCE BOUNDARIES LIMITS AND LOCATION MAP

I. LANDSCAPE PROJECT LIMITS:
State Road 810 (Hillsboro Boulevard) from State Road 7 (US 441) (M.P.0.00) to State Road 91 (Florida Turnpike) (M.P. 2.00)

II. ORIGINAL INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT LIMITS FOR State Road 810:

State Road 810 (Hillsboro Boulevard) from (M.P. 0.000) east of State Road 7 (US 441) to (M.P. 1.997) East of SR 91

III. MODIFIED INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT LIMITS:
State Road 810 (Hillsboro Boulevard) from (M.P. 0.000) east of State Road 7 (US 441) to (M.P. 2.000)

IV. **PROJECT BOUNDARY LIMITS MAP:**

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

Please See Attached

SECTION No.(s): 86120
S.R. No.(s): 810
FM No: 437221-1-74-01
COUNTY: BROWARD

EXHIBIT B

LANDSCAPE IMPROVEMENT PLANS

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

Please see attached plans prepared by:

Cristobal Alex Betancourt, RLA
Chen-Moore & Associates
Sheets L2.00
Sheets L2.01 - L2.26
Sheet L3.00
Sheets L3.01 - 3.26
Sheets L3.28 – L3.29
Dated: April 27, 2015

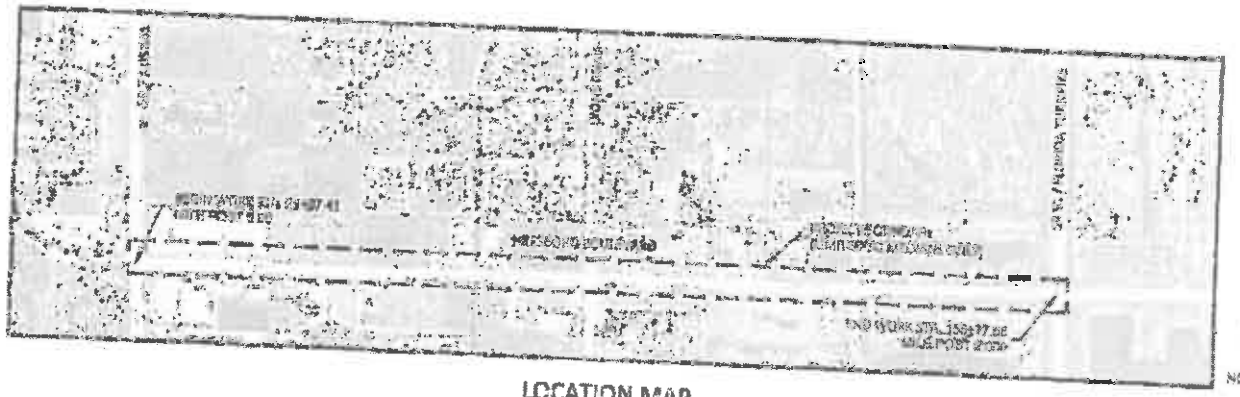
And

Sara Lorraine Matin, P.E.
Chen-Moore & Associates
Sheets L4.00 – 4.03
April 27, 2015

HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS

CONSTRUCTION DRAWINGS

FOR: CITY OF COCONUT CREEK



LOCATION MAP

NOT TO SCALE

Coconut Creek Florida

CITY OF COCONUT CREEK
4800 W. Copans Road, Coconut Creek, FL • 33063
954.973.6760

CHEN·MOORE & ASSOCIATES

DRAWING INDEX

DRAWING NAME	SHEET NUMBER
COVER	
LANDSCAPE TABULATION OF QUANTITIES	L2.00
LANDSCAPE PLANS	L2.01 thru L2.26
IRRIGATION LANDSCAPE TABULATION OF QUANTITIES	L3.00
IRRIGATION PLANS	L3.01 thru L3.26
IRRIGATION SPECIFICATIONS	L3.27
IRRIGATION DETAILS	L3.28 thru L3.29
MOT PLANS	L4.00 thru L4.03

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, 2015 DESIGN STANDARDS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, AND 2015 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS AMENDED BY CONTRACT DOCUMENTS

FOR DESIGN STANDARDS CLICK ON THE "DESIGN STANDARDS" LINK AT THE FOLLOWING WEB SITE: HTTP://WWW.DOT.STATE.FL.US/ROADDESIGN/

FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION CLICK ON THE "SPECIFICATIONS" LINK AT THE FOLLOWING WEB SITE: HTTP://WWW.DOT.STATE.FL.US/SPECIFICATIONSOFFICE/

REGISTERED LANDSCAPE ARCHITECT
CRISTOBAL ALEX RETANCOURT
LA 6666041
STATE OF FLORIDA

SHEET 1 OF 82

FINANCIAL PROJECT ID #: 437221-1-74-01

P:\1 PROJECTS\2015\15-046.005 - HILLSBORO BLVD-SR7 TO FLORIDA TURNPIKE\DESIGN\CAD\PLANS\046.005 COV SHTS 4.29.15.dgn 4/29/15 by EHARRISON

GENERAL NOTES

1. BASE INFORMATION WAS DERIVED FROM AUTOCAD FILES (.DWG) PROVIDED BY THE CITY OF COCONUT CREEK, AS WELL AS [illegible] AERIAL PHOTOGRAPHY, [illegible]
2. THE EXISTING STORM DRAIN PIPES LOCATED WITHIN A PORTION OF THE [illegible] ON THESE PLANS IS ASSUMED TO HAVE [illegible] FEET OF COVER. [illegible] COUNTY, 2018. VERIFY ABOVE AND BELOW GROUND UTILITIES PRIOR TO COMMENCING WORK IN THE PROJECT AREA. [illegible] PER COORDINATION WITH CITY STAFF.
3. IN THE CASE OF UTILITY CONFLICTS THE LANDSCAPE WILL BE ADJUSTED, DO NOT ADJUST [illegible]. IF UTILITY CONFLICTS ARE DISCOVERED, NOTIFY LANDSCAPE ARCHITECT AND FDOT DISTRICT [illegible] MANAGER IMMEDIATELY.
4. THE LOCATIONS OF PLANTS AS SHOWN ON THESE PLANS, ARE APPROXIMATE. THE FINAL LOCATIONS MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS, TO COMPLY WITH SAFETY [illegible] AND FDOT DESIGN CRITERIA, OR AS OTHERWISE DIRECTED/APPROVED BY THE LANDSCAPE ARCHITECT AND FDOT DISTRICT OPERATIONS MANAGER. FLAG PROPOSED TREE AND PLANTED LOCATIONS TO THE EXTENT REQUESTED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING FOR APPROVAL. [illegible] AND SUNSHINE STATE ONE CALL OF FLORIDA, [illegible] WORKING DAYS BEFORE CONSTRUCTION.
5. THE PAYMENT OF WATER BILLS AND REPORTING OF WATER USAGE PERTAINING TO THE IRRIGATION WILL BE THE RESPONSIBILITY OF THE [illegible] MAINTAINING SAID SYSTEM THROUGHOUT THE CONSTRUCTION AND WARRANTY PERIODS.
6. CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE DONE TO FDOT PROPERTY DURING DEMOLITION, RELOCATION AND INSTALLATION ACTIVITIES AT HIS SOLE EXPENSE.
7. OWNERSHIP OF ALL SUITABLE EXCAVATED MATERIALS, AS DETERMINED BY THE DEPARTMENT, SHALL REMAIN IN THE DEPARTMENT UNTIL A FINAL ACCEPTANCE OF THE [illegible]. EXCAVATED MATERIALS SHALL BE HAULED BY THE PERMITTEE, AT THE [illegible] & EXPENSE FROM THE [illegible] TO THE OPERATIONS CENTER OR STOCKPILE [illegible] AREAS AS DIRECTED BY THE DEPARTMENT, INCLUDING ASPHALT MILLINGS.
8. RELOCATION OF ANY SIGNS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PLANTING NOTES

1. ALL EXISTING TREES ARE TO REMAIN.
2. PRIOR TO PLANTING CONTRACTOR SHALL VERIFY EXISTING SOIL CONDITIONS. IF EXISTING SUBGRADE IS COMPACTED ROAD BASE, CONTRACTOR SHALL REMOVE UNSUITABLE SOIL INCLUDING CONCRETE, PAVEMENT, ROAD BASE, STONES OVER 3" DIAMETER AND ALL CONSTRUCTION DEBRIS FROM MEDIAN AREA TO BE PLANTED. PLANTING AREA SHALL BE BACKFILLED WITH PLANTING SOIL, CONSISTING OF 60% SAND AND 40% MUCK.
3. AREAS TO BE PLANTED WITH SHRUBS AND/OR GROUND COVERS REMOVE COMPACTED SOIL TO A DEPTH OF 18" AND REPLACE WITH SPECIFIED PLANTING SOIL. PLANTING SOIL SHALL COME UP TO 4" FROM TOP OF CURB, RESERVING SPACE FOR 3" COMPACTED MULCH AND 1" CLEAR FROM TOP OF CURB.
4. PLANTING PITS FOR TREES AND PALMS REMOVE COMPACTED SOIL WITHIN THE AREA OF EACH PLANTING PIT TO A DEPTH OF 24" FROM THE TOP OF CURB. PLANTING SOIL SHALL COME UP TO 4" FROM TOP OF CURB, RESERVING SPACE FOR 3" COMPACTED MULCH AND 1" CLEAR FROM TOP OF CURB.
5. CYPRESS MULCH IS NOT PERMITTED ON FDOT RIGHT OF WAY. INSTALL 3" RECYCLED MULCH CERTIFIED BY THE MULCH AND SOIL COUNCIL (MSC). SUBMIT PROOF OF CERTIFICATION TO THE FDOT DISTRICT [illegible] PERMIT LANDSCAPE INSPECTOR [illegible]. A CONTINUOUS LAYER OF MULCH SHALL BE INSTALLED [illegible] SHRUB AND GROUNDCOVER BEDS. A 3' MULCH RING SHALL BE INSTALLED AROUND ALL NEWLY INSTALLED [illegible] STANDING TREES.
6. SODDED AREAS WILL BE IN ACCORDANCE WITH STANDARD INDEX 105 AND SECTIONS 162, 570, 981, 982, 983, 987 OF THE DEPARTMENT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. ALL DISTURBED AREAS WILL BE [illegible] WITHIN ONE [illegible] WEEK OF INSTALLATION OF SAID [illegible] WORK. CONTRACTOR SHALL REMOVE THE EXISTING SOIL WITHIN A 3' RADIUS OF SAID TREES.
7. TREES, SHRUBS AND GROUNDCOVER SHALL BE INSTALLED PER FDOT INDEX 544, 2015 STANDARDS. REFER HTTP://WWW.DOT.STATE.FL.US/RDDESIGN/DS/15/IDX/00544.PDF
8. LANDSCAPE MAINTENANCE AND ESTABLISHMENT SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, JANUARY - JUNE [illegible]. REFER TO HTTP://WWW.DOT.STATE.FL.US/SPECIFICATIONSOFFICE/[illegible], SECTION [illegible] FOR SPECIFICATION DETAILS.

ROOT PRUNING & TREE PROTECTION NOTES

[illegible]

DESIGN NOTES

1. DESIGN SPEED OF THE ROAD IS 45 MPH.
2. SIGHT [illegible] ANGLES SHOWN ON THESE PLANS AREA BASED ON A 45 MPH DESIGN SPEED, 4 LANE DIVIDED ROADWAY (DISTANCE [illegible]) WITH A MEDIAN OF 22' OR LESS, CHANNELIZED MEDIAN OPENING DISTANCES OF <30.
3. INTERSECTIONS LABELED AS 'SIGNALIZED' ARE FULLY SIGNALIZED 24 HOURS PER DAY AND ARE NOT PLACED IN A FLASHING MODE AS PART OF THEIR NORMAL OPERATION.

PLANT SCHEDULE

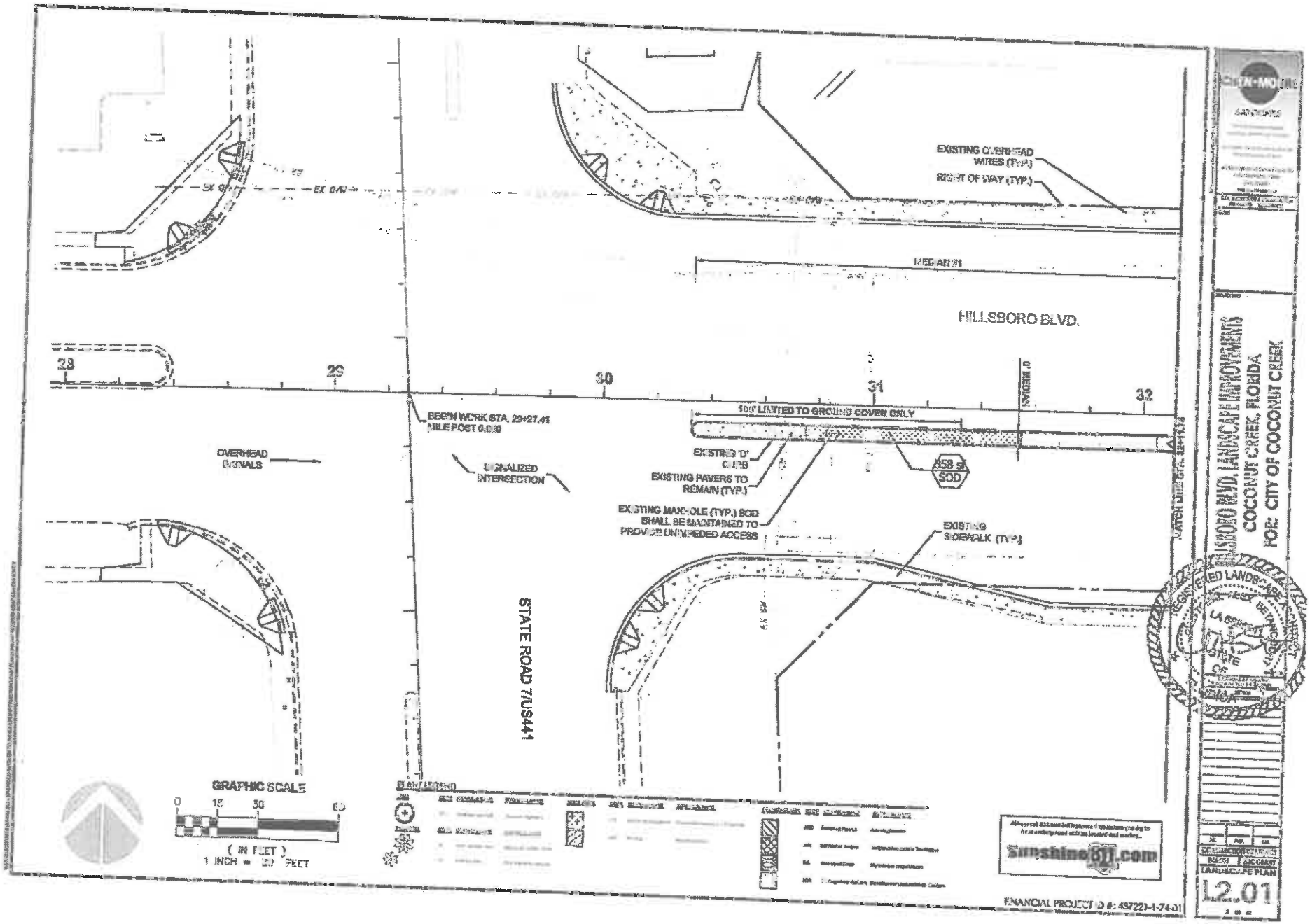
	Code	Quantity	Common	Botanical	Cont	Size	Native	Spacing	Maint. Min. Hgt.	Mature Height
TREE										
	QV	10	Southern Live Oak	Quercus virginiana	B & B	16' HT, 7' SPRD, 4" CAL	Yes	As Shown		
PALM TREES										
	BB	17	Silver Bismark Palm	Bismarckia nobilis 'Silver'	B & B	12' - 14' OAH, 18" MAX TRUNK DIAMETER	No	As Shown		
	PE	67	Solitaire Palm	Ptychosperma elegans	B & B	16'-18' OAH	No	As Shown		
SHRUB AREAS										
	CHI	447	Horizontal Cocoplum	Chrysobalanus icaco 'Horizontalis'	3 gal	18"x18"	Yes	30" o.c.	14"	
	HAP	409	Dwarf Fire Bush	Hamelia patens 'Dwarf'	3 gal	18"x18"	Yes	24" o.c.	36"	
GROUND COVERS										
	ARS	3,180	Perennial Peanut	Arachis glabrata 'Ecoturf'	4"	8"	No	12" o.c.		6"
	JUH	543	Bar Harbor Juniper	Juniperus horizontalis 'Bar Harbor'	3 gal	14"x14"	No	24" o.c.		12"
	SIA	1,617	Blue-eyed Grass	Sisyrinchium angustifolium	1 gal	6"x6"	Yes	As Shown		18"
	SOD	884	St. Augustine 'Floritam'	Stenotaphrum secundatum 'Floritam'		Solid Sod	N/A	As Shown		

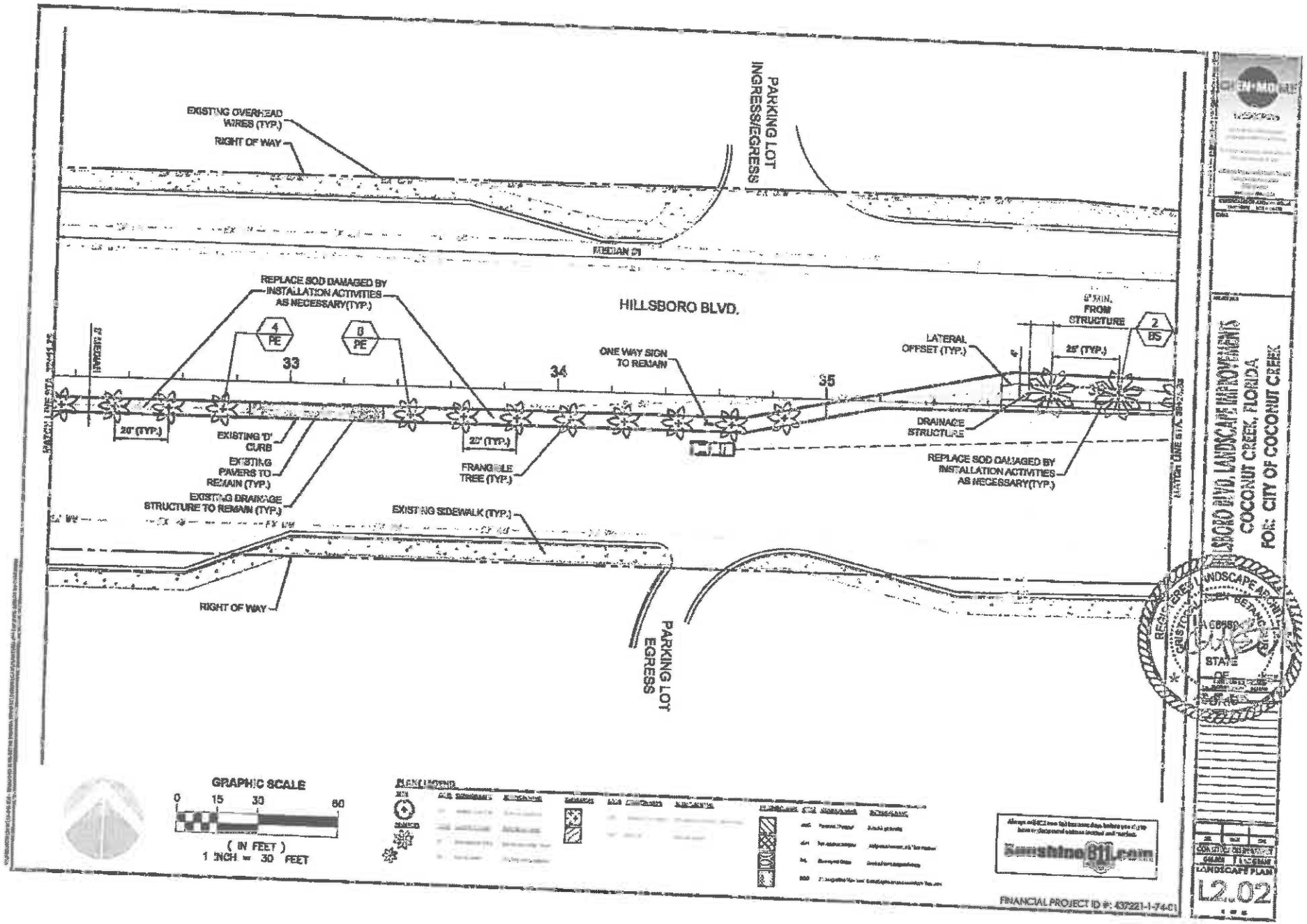
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

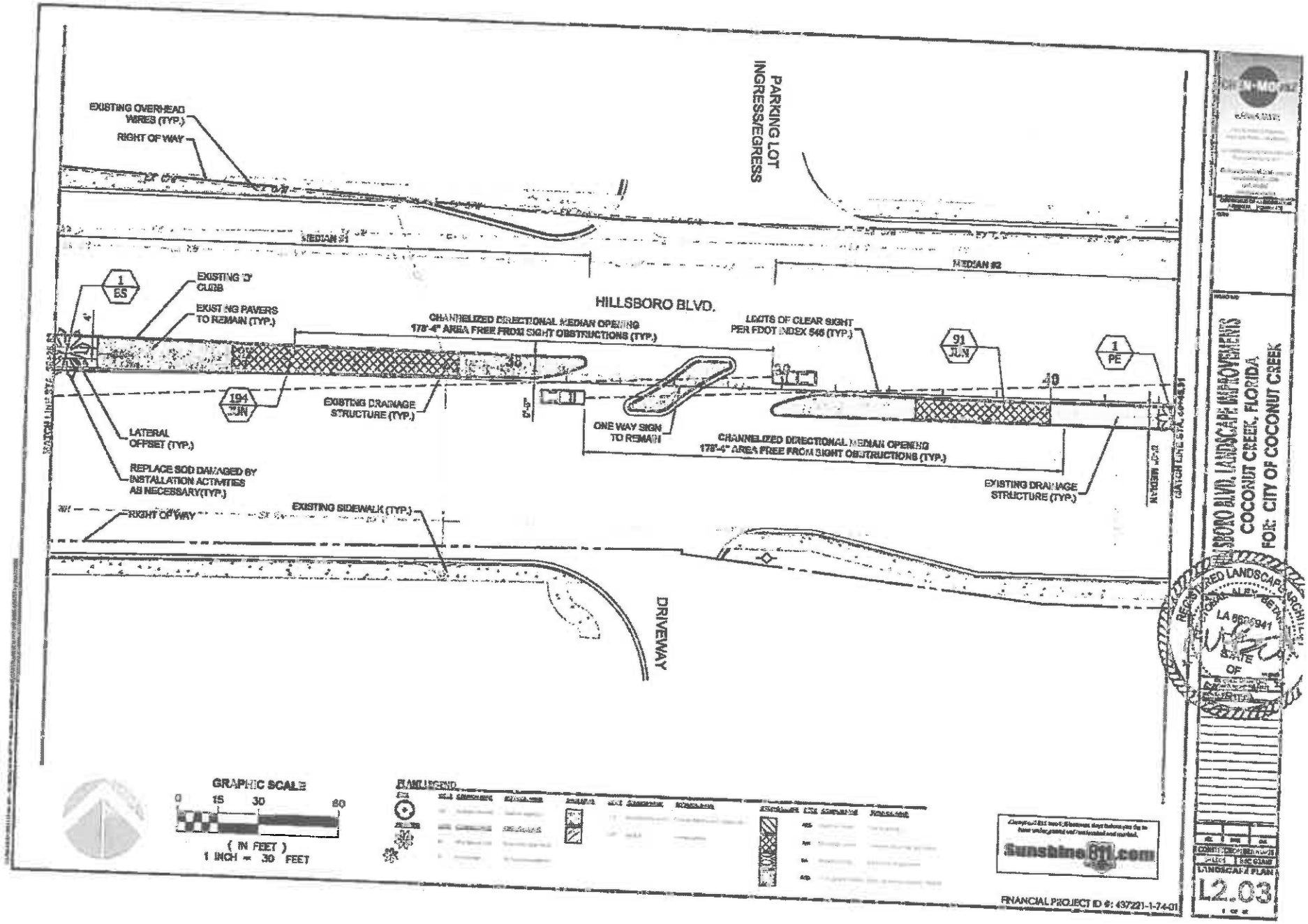
REGISTERED LANDSCAPE ARCHITECT · GLOBAL ALEX BETANCOURT · STATE OF FLORIDA

FINANCIAL PROJECT ID #: 437221-1-74-01

L2.00


HILLSBORO BLVD.
STATE ROAD 7/US441
28
29
30
31
32
EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY (TYP.)
BEGIN WORK STA. 29+27.41
MILE POST 6.030
100' LIMITED TO GROUND COVER ONLY
EXISTING 'D' CURB
EXISTING PAVERS TO REMAIN (TYP.)
358 SY SOD
EXISTING MANHOLE (TYP.) SOD SHALL BE MAINTAINED TO PROVIDE UNIMPEDED ACCESS
EXISTING SIDEWALK (TYP.)
OVERHEAD SIGNALS
SIGNALIZED INTERSECTION
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
LANDSCAPE PLAN
L2.01


EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
PARKING LOT INGRESS/EGRESS
HILLSBORO BLVD.
REPLACE SOD DAMAGED BY INSTALLATION ACTIVITIES AS NECESSARY(TYP.)
4 PE
8 PE
33
34
35
ONE WAY SIGN TO REMAIN
LATERAL OFFSET (TYP.)
6" MIN. FROM STRUCTURE
2 BS
25' (TYP.)
20' (TYP.)
22' (TYP.)
EXISTING 'D' CURB
EXISTING PAVERS TO REMAIN (TYP.)
EXISTING DRAINAGE STRUCTURE TO REMAIN (TYP.)
FRANGIBLE TREE (TYP.)
DRAINAGE STRUCTURE
REPLACE SOD DAMAGED BY INSTALLATION ACTIVITIES AS NECESSARY(TYP.)
EXISTING SIDEWALK (TYP.)
RIGHT OF WAY
PARKING LOT EGRESS
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
PLANT LEGEND
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
REGISTERED LANDSCAPE ARCHITECT
STATE OF FLORIDA
LANDSCAPE PLAN
L2.02


EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
PARKING LOT INGRESS/EGRESS
MEDIAN #1
MEDIAN #2
HILLSBORO BLVD.
1 ES
EXISTING 'D' CURB
EXISTING PAVERS TO REMAIN (TYP.)
CHANNELIZED DIRECTIONAL MEDIAN OPENING 178'-4" AREA FREE FROM SIGHT OBSTRUCTIONS (TYP.)
LOOTS OF CLEAR SIGHT PER FDOT INDEX 546 (TYP.)
91 JUN
1 PE
194 JUN
EXISTING DRAINAGE STRUCTURE (TYP.)
LATERAL OFFSET (TYP.)
ONE WAY SIGN TO REMAIN
CHANNELIZED DIRECTIONAL MEDIAN OPENING 178'-4" AREA FREE FROM SIGHT OBSTRUCTIONS (TYP.)
EXISTING DRAINAGE STRUCTURE (TYP.)
REPLACE SOD DAMAGED BY INSTALLATION ACTIVITIES AS NECESSARY(TYP.)
RIGHT OF WAY
EXISTING SIDEWALK (TYP.)
DRIVEWAY
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
FINANCIAL PROJECT ID #: 437221-1-74-01
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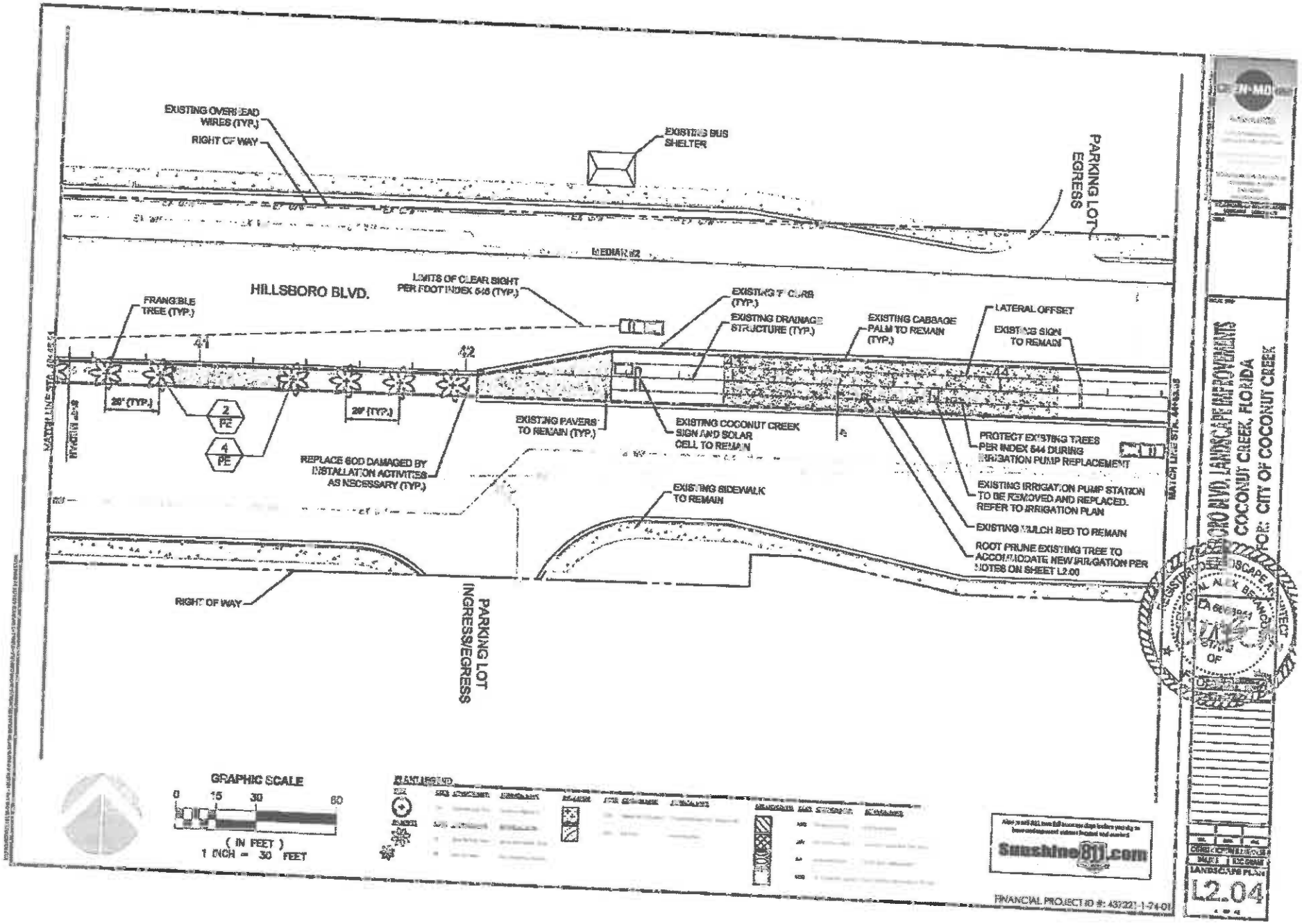
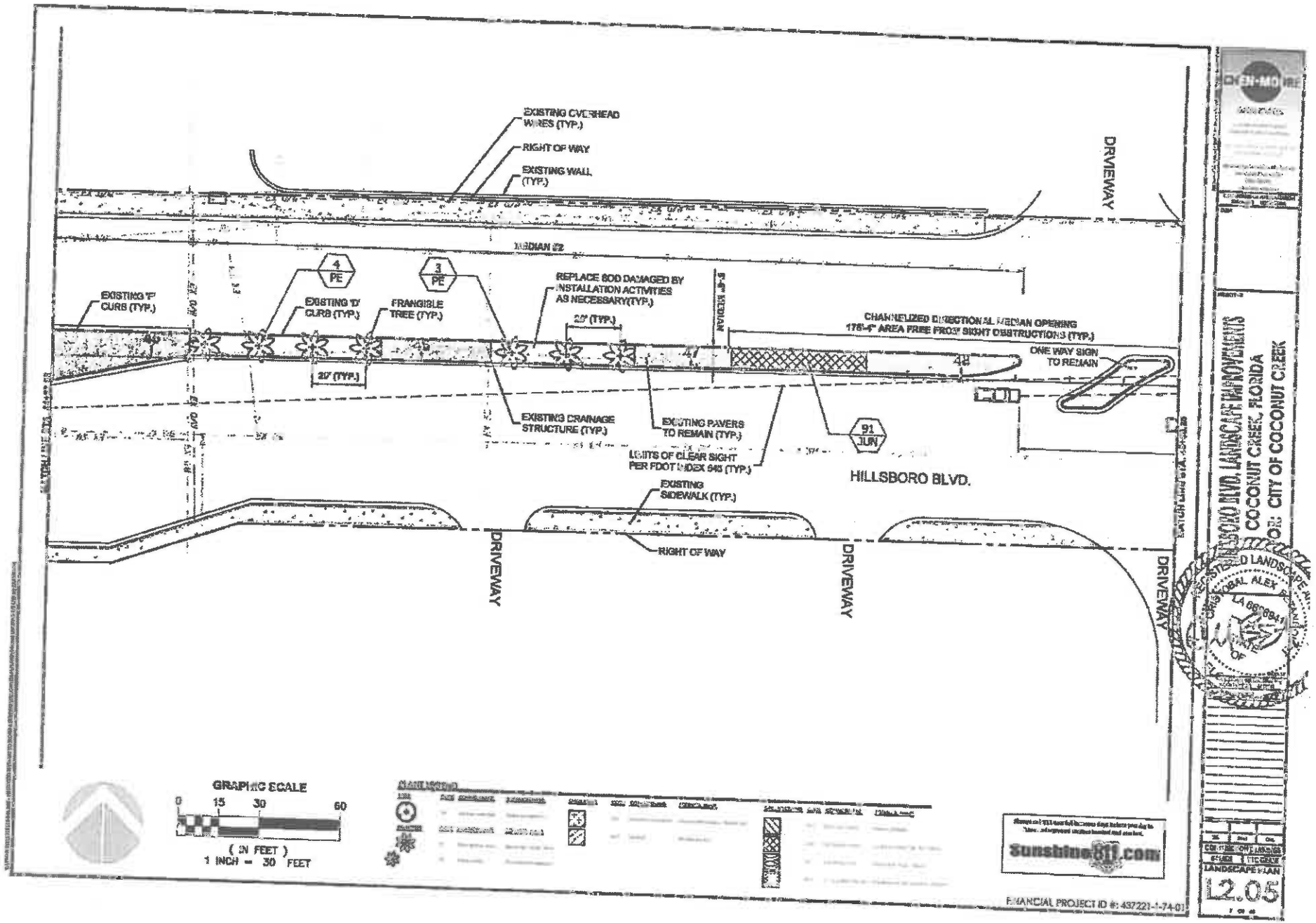
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
REGISTERED LANDSCAPE ARCHITECT
LA 6666941
STATE OF
L2.03

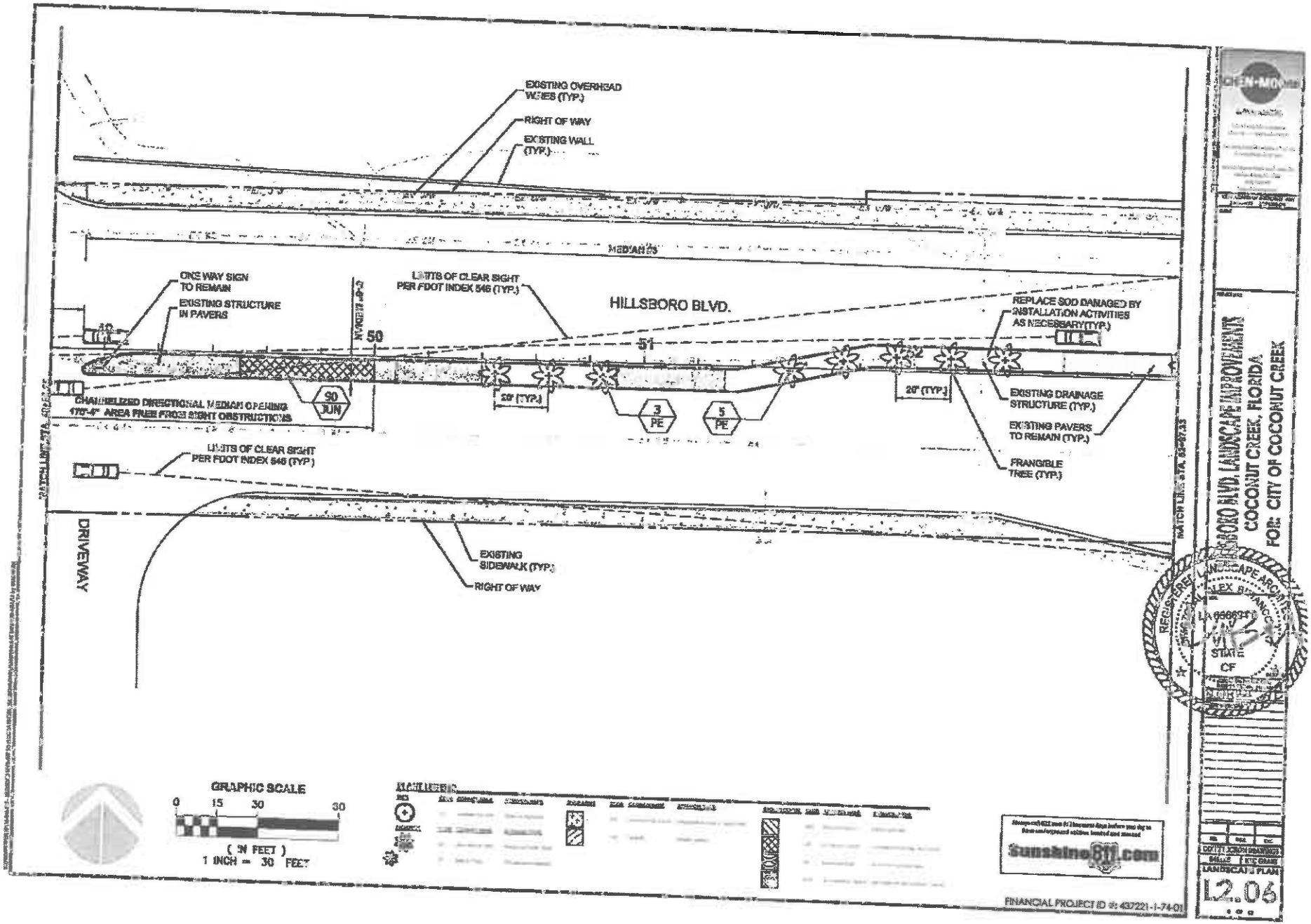

EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
EXISTING BUS SHELTER
PARKING LOT EGRESS
MEDIAN #2
HILLSBORO BLVD.
LIMITS OF CLEAR SIGHT PER FDOT INDEX 546 (TYP.)
EXISTING 6" CURB (TYP.)
EXISTING DRAINAGE STRUCTURE (TYP.)
EXISTING CABBAGE PALM TO REMAIN (TYP.)
LATERAL OFFSET
EXISTING SIGN TO REMAIN
FRANGIBLE TREE (TYP.)
41
42
43
44
MATCH LINE STA. 40+45.51
MATCH LINE STA. 44+65.18
20' (TYP.)
2 PE
4 PE
20' (TYP.)
EXISTING PAVERS TO REMAIN (TYP.)
EXISTING COCONUT CREEK SIGN AND SOLAR CELL TO REMAIN
REPLACE SOD DAMAGED BY INSTALLATION ACTIVITIES AS NECESSARY (TYP.)
PROTECT EXISTING TREES PER INDEX 544 DURING IRRIGATION PUMP REPLACEMENT
EXISTING IRRIGATION PUMP STATION TO BE REMOVED AND REPLACED. REFER TO IRRIGATION PLAN
EXISTING SIDEWALK TO REMAIN
EXISTING MULCH BED TO REMAIN
ROOT PRUNE EXISTING TREE TO ACCOMMODATE NEW IRRIGATION PER NOTES ON SHEET L2.00
RIGHT OF WAY
PARKING LOT INGRESS/EGRESS
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
PLANT LEGEND
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
LANDSCAPE PLAN
L2.04

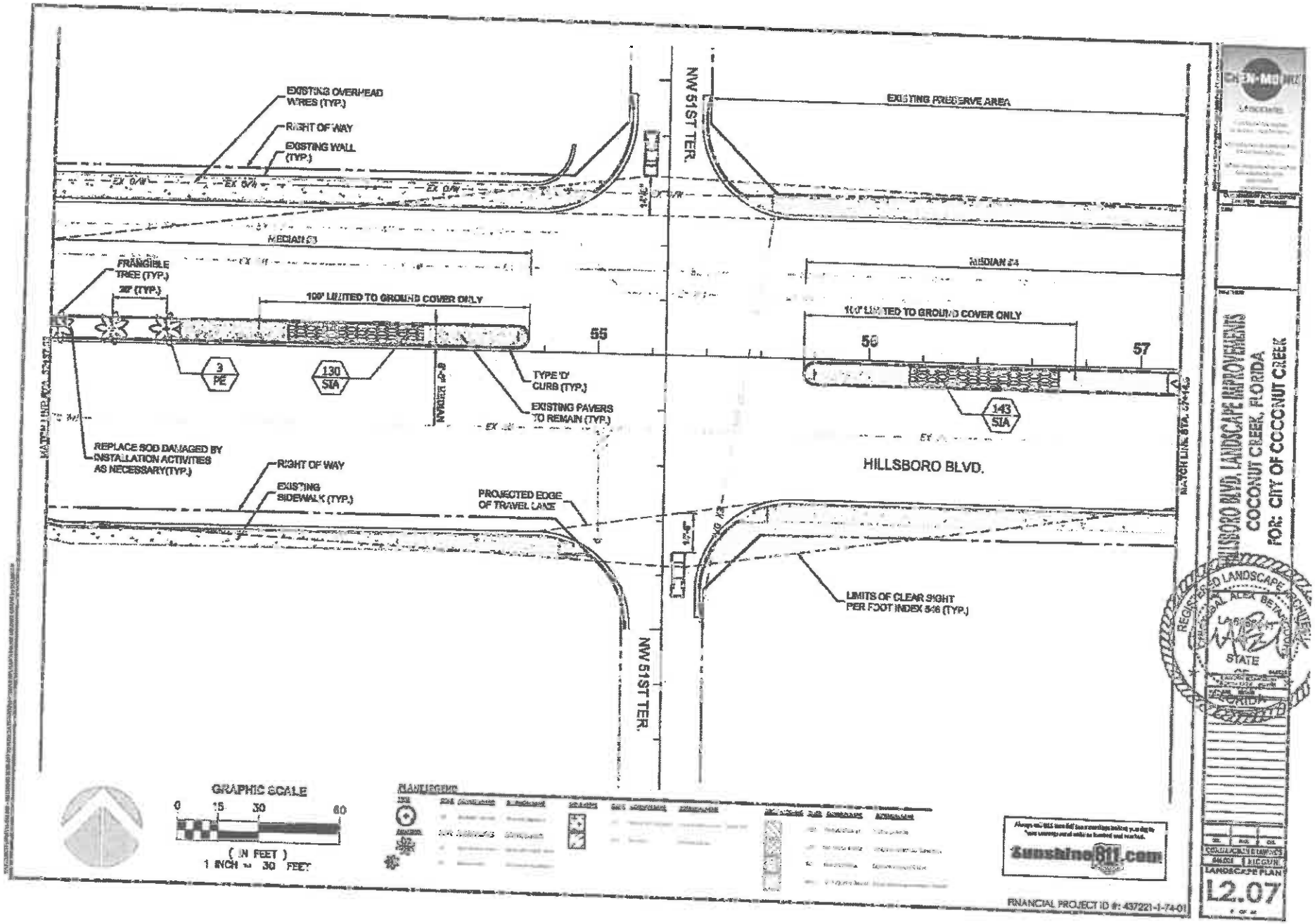


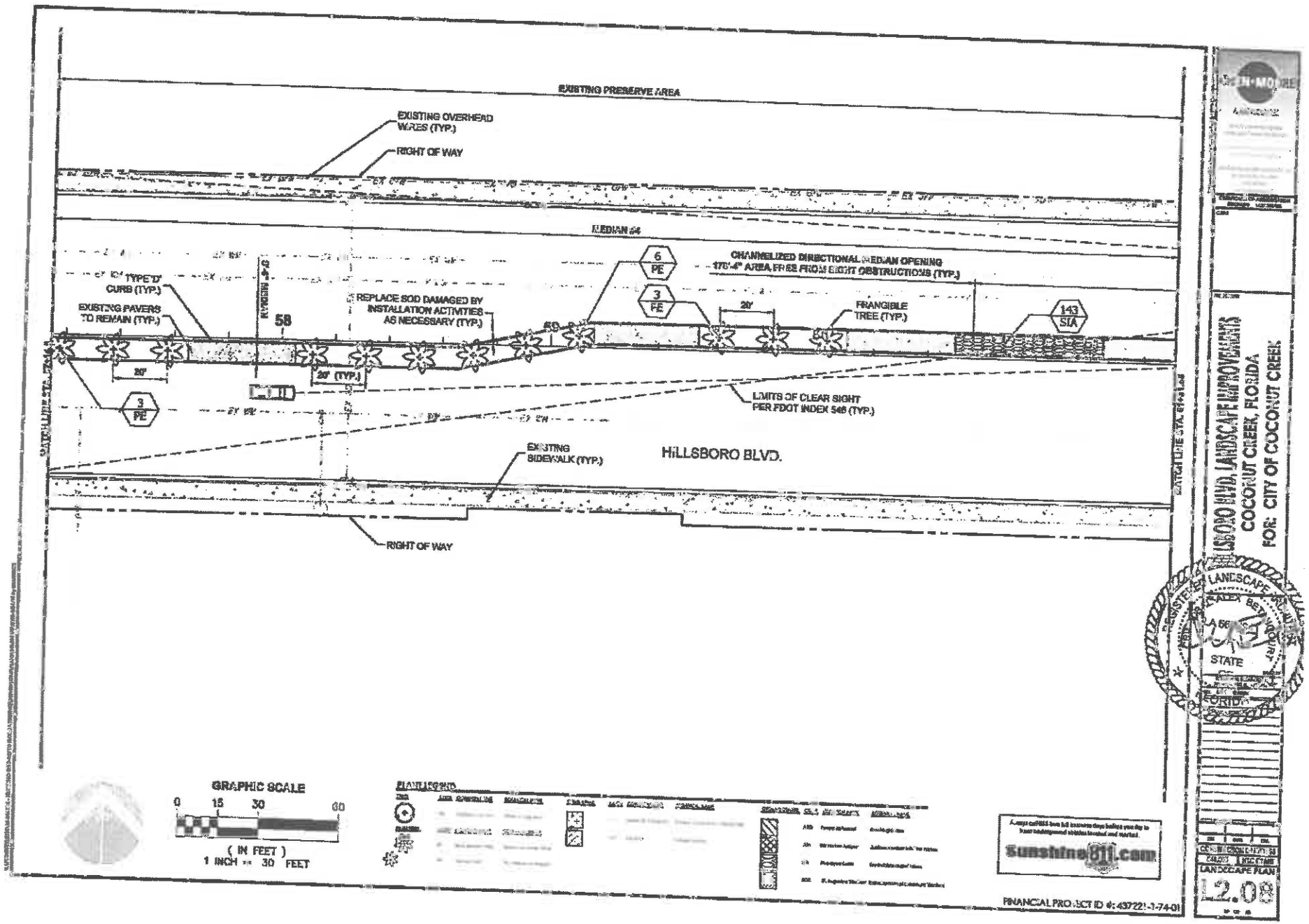
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
CITY OF COCONUT CREEK

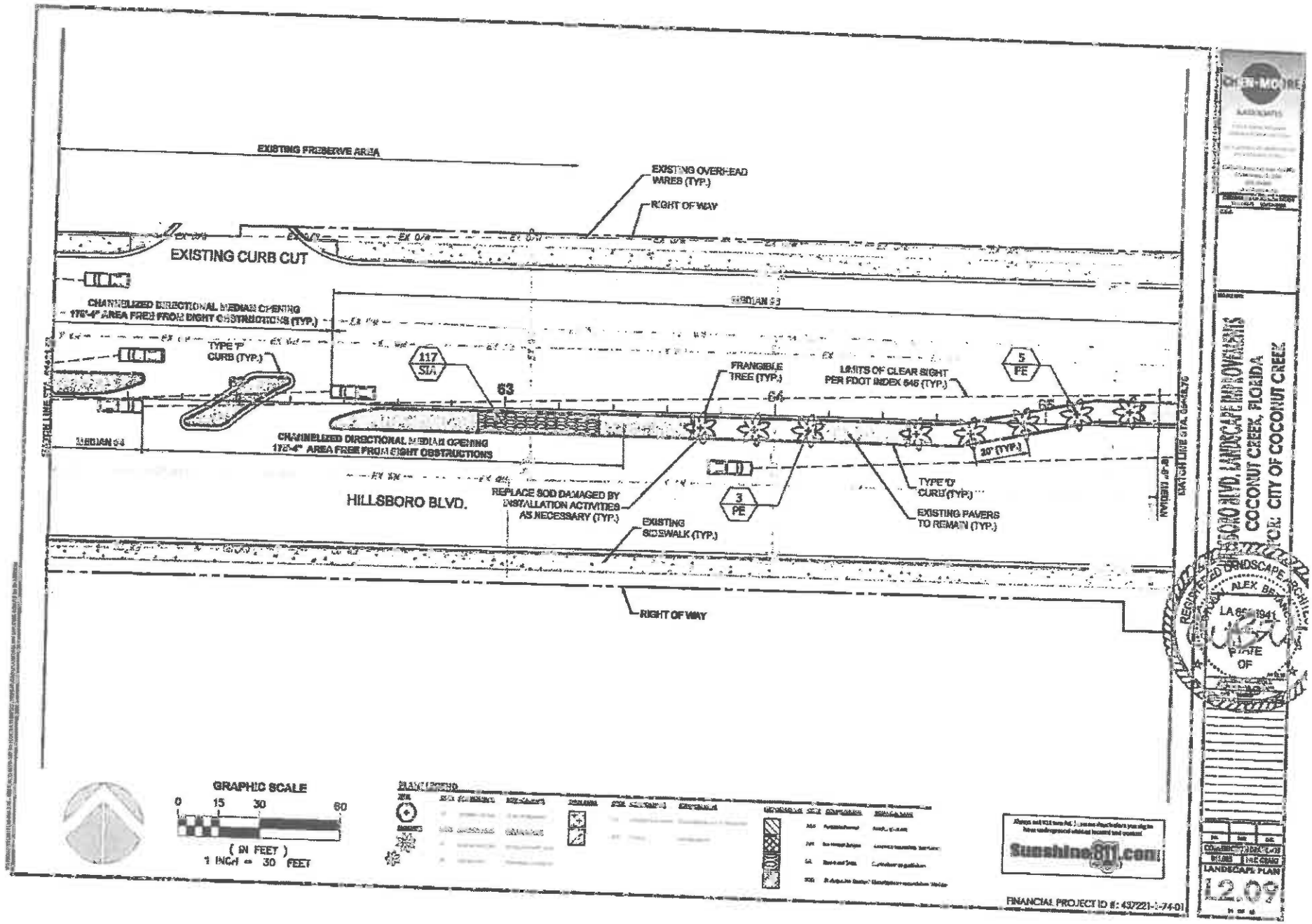
LANDSCAPE PLAN

L2.05


EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
EXISTING WALL (TYP.)
MEDIAN
ONE WAY SIGN TO REMAIN
EXISTING STRUCTURE IN PAVERS
LIMITS OF CLEAR SIGHT PER FDOT INDEX 546 (TYP.)
HILLSBORO BLVD.
REPLACE SOD DAMAGED BY INSTALLATION ACTIVITIES AS NECESSARY (TYP.)
50
51
CHANNELIZED DIRECTIONAL MEDIAN OPENING 170'-0" AREA FREE FROM SIGHT OBSTRUCTIONS
90 JUN
20' (TYP.)
3 PE
5 PE
20' (TYP.)
EXISTING DRAINAGE STRUCTURE (TYP.)
EXISTING PAVERS TO REMAIN (TYP.)
FRANGIBLE TREE (TYP.)
LIMITS OF CLEAR SIGHT PER FDOT INDEX 546 (TYP.)
DRIVEWAY
EXISTING SIDEWALK (TYP.)
RIGHT OF WAY
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENT
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
LANDSCAPE PLAN
L2.06


EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
EXISTING WALL (TYP.)
NW 51ST TER.
EXISTING PRESERVE AREA
MEDIAN #3
MEDIAN #4
FRANGIBLE TREE (TYP.)
20' (TYP.)
100' LIMITED TO GROUND COVER ONLY
55
56
57
3 PE
130 SIA
143 SIA
TYPE 'D' CURB (TYP.)
EXISTING PAVERS TO REMAIN (TYP.)
REPLACE SOD DAMAGED BY INSTALLATION ACTIVITIES AS NECESSARY(TYP.)
RIGHT OF WAY
EXISTING SIDEWALK (TYP.)
PROJECTED EDGE OF TRAVEL LANE
HILLSBORO BLVD.
LIMITS OF CLEAR SIGHT PER FDOT INDEX 546 (TYP.)
NW 51ST TER.
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
PLANT LEGEND
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
REGISTERED LANDSCAPE ARCHITECT
ALEX BETANCOURT
STATE
FLORIDA
LANDSCAPE PLAN
L2.07


EXISTING PRESERVE AREA
EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
MEDIAN #4
CHANNELIZED DIRECTIONAL MEDIAN OPENING
170'-4" AREA FREE FROM SIGHT OBSTRUCTIONS (TYP.)
6 PE
3 PE
TYPE 'D' CURB (TYP.)
EXISTING PAVERS TO REMAIN (TYP.)
REPLACE SOD DAMAGED BY INSTALLATION ACTIVITIES AS NECESSARY (TYP.)
58
20'
20' (TYP.)
FRANGIBLE TREE (TYP.)
143 SIA
LIMITS OF CLEAR SIGHT PER FDOT INDEX 546 (TYP.)
EXISTING SIDEWALK (TYP.)
HILLSBORO BLVD.
RIGHT OF WAY
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
REGISTERED LANDSCAPE ARCHITECT
ALEX BELL
STATE
FLORIDA
ISLAND HILLS
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
LANDSCAPE PLAN
L2.08

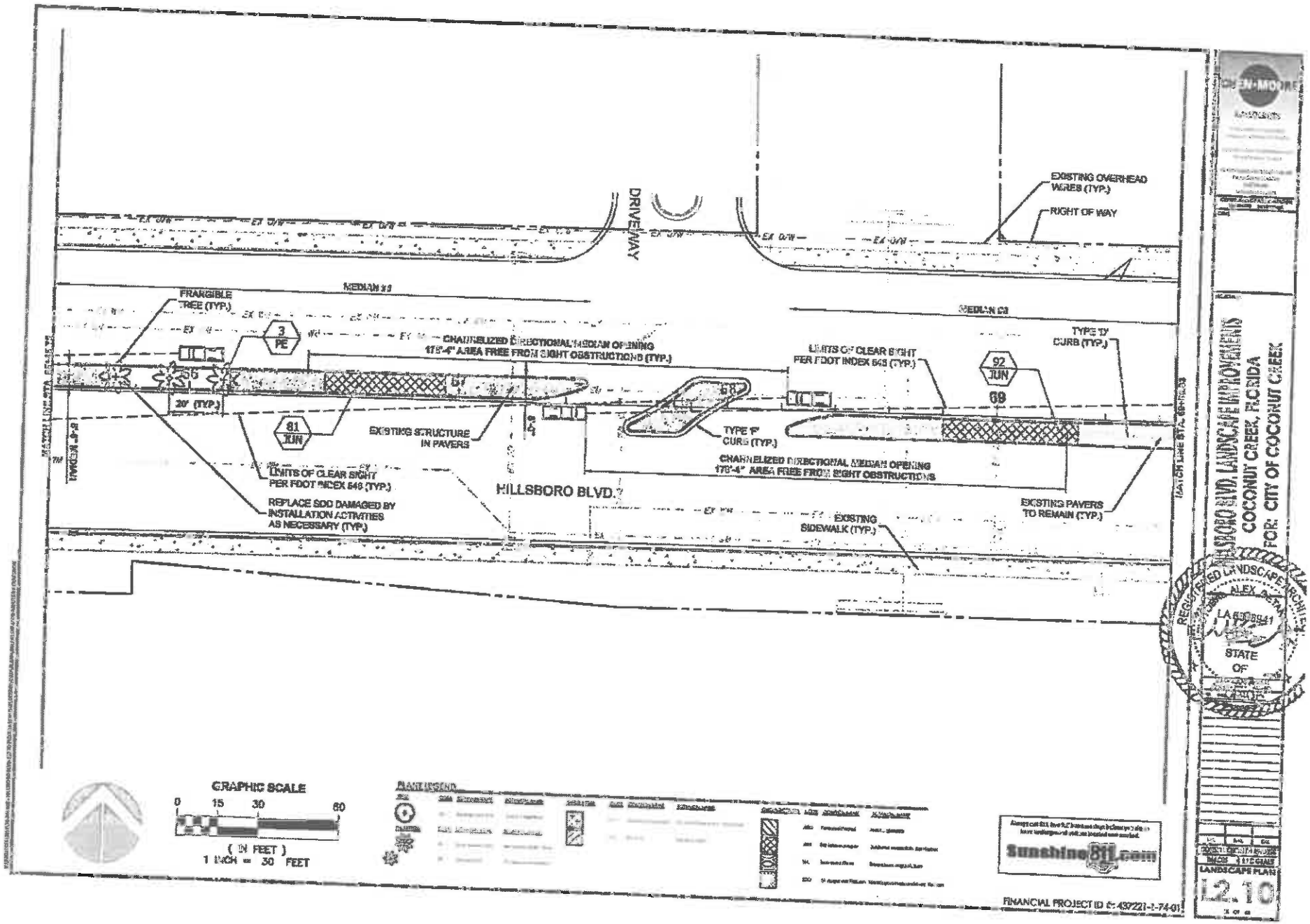


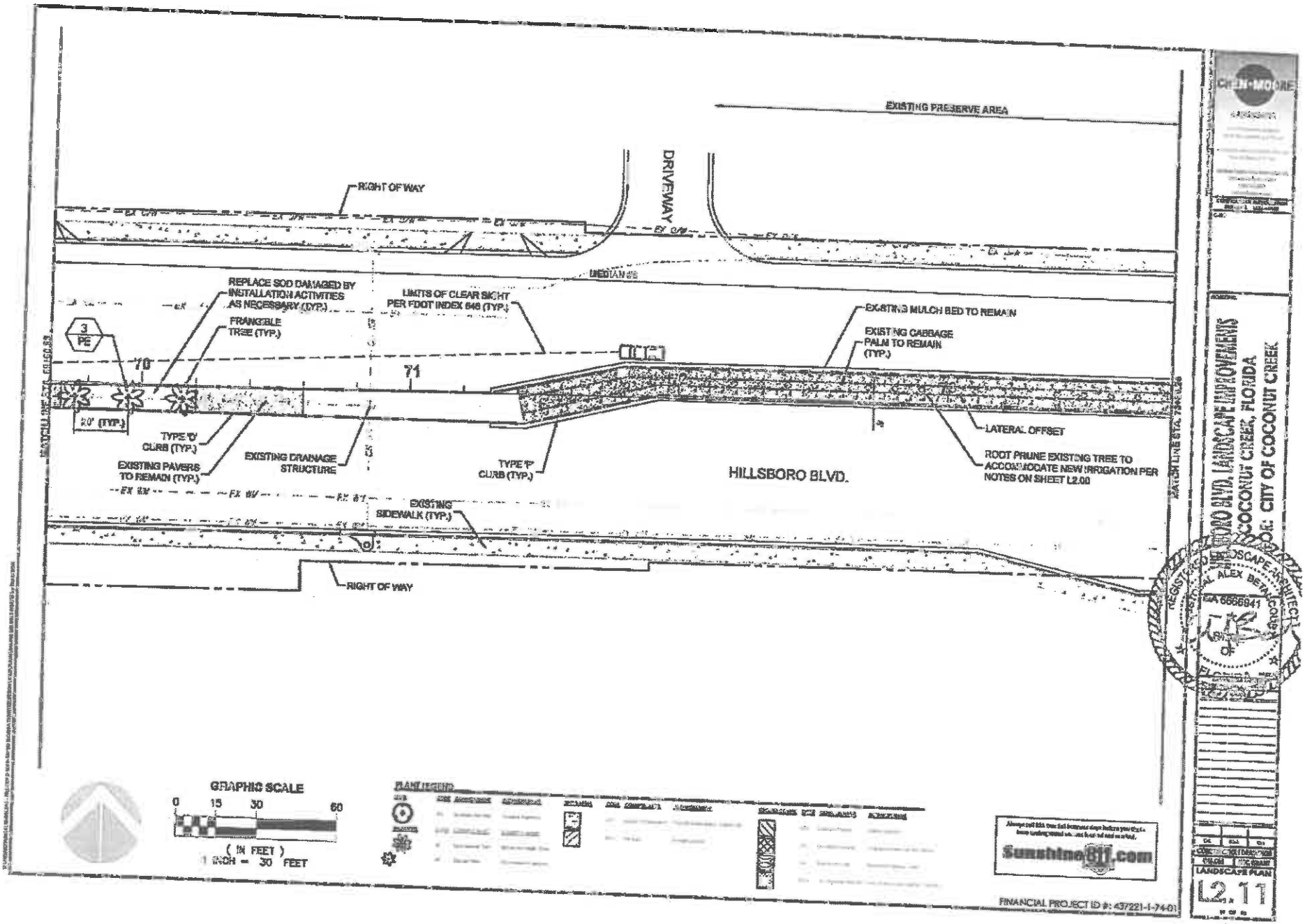
CHEN MOORE

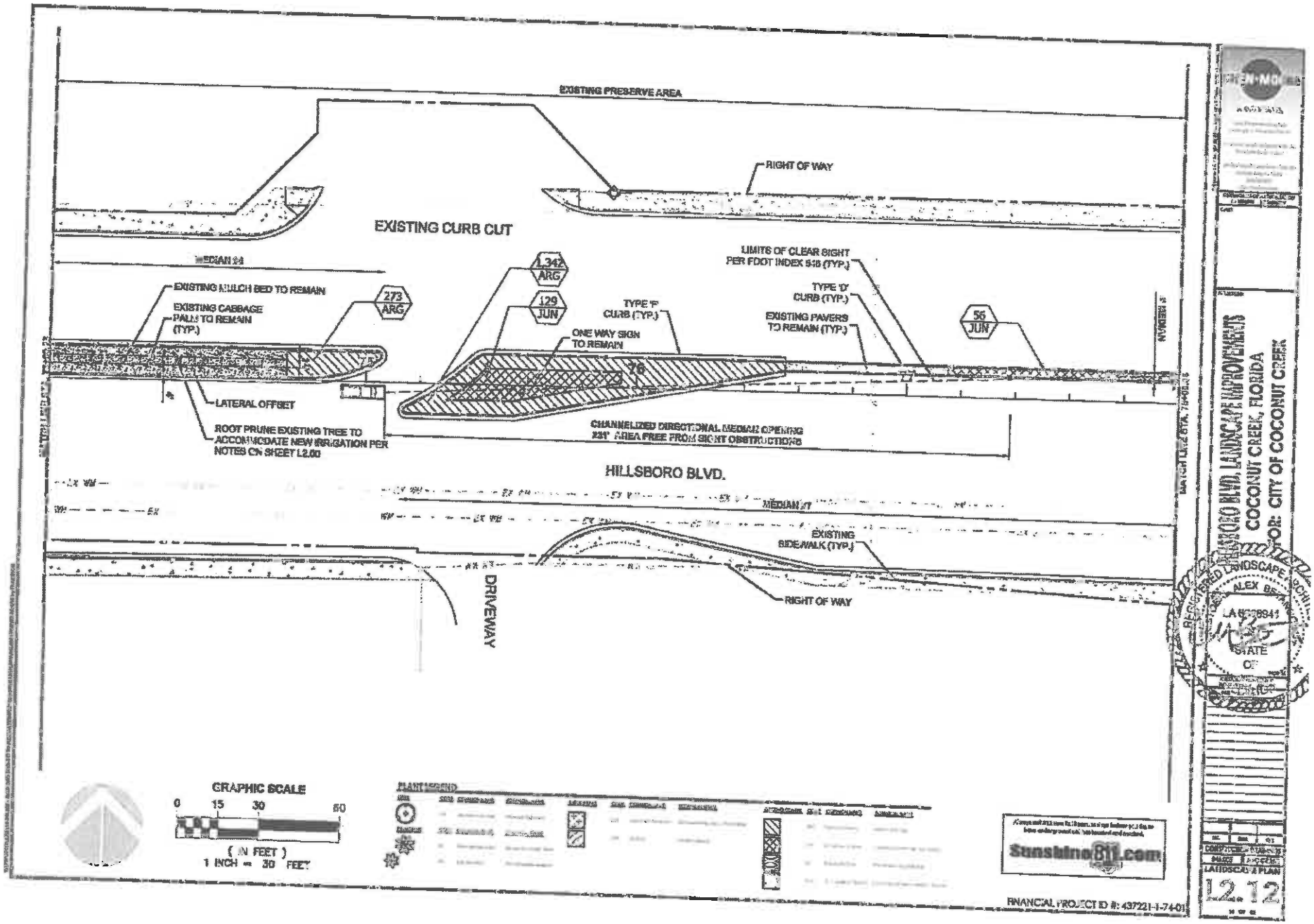
COCONUT CREEK LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
CITY OF COCONUT CREEK

REGISTERED LANDSCAPE ARCHITECT
ALEX BRAUN
LA 6671941
STATE OF FLORIDA

LANDSCAPE PLAN
L2.09


DRIVEWAY
EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
MEDIAN #2
MEDIAN #3
FRANGIBLE TREE (TYP.)
3 PE
CHANNELIZED DIRECTIONAL MEDIAN OPENING 175'-4" AREA FREE FROM SIGHT OBSTRUCTIONS (TYP.)
UNITS OF CLEAR SIGHT PER FDOT INDEX 546 (TYP.)
92 JUN
TYPE 'D' CURB (TYP.)
20' (TYP.)
81 JUN
EXISTING STRUCTURE IN PAVERS
TYPE 'F' CURB (TYP.)
CHANNELIZED DIRECTIONAL MEDIAN OPENING 175'-4" AREA FREE FROM SIGHT OBSTRUCTIONS
UNITS OF CLEAR SIGHT PER FDOT INDEX 546 (TYP.)
REPLACE SOD DAMAGED BY INSTALLATION ACTIVITIES AS NECESSARY (TYP.)
HILLSBORO BLVD.
EXISTING SIDEWALK (TYP.)
EXISTING PAVERS TO REMAIN (TYP.)
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
PLANT LEGEND
Sunshine811.com
FINANCIAL PROJECT ID 6: 439221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
REGISTERED LANDSCAPE ARCHITECT
ALEX JETAN
LA 6666941
STATE OF
LANDSCAPE PLAN
L2.10

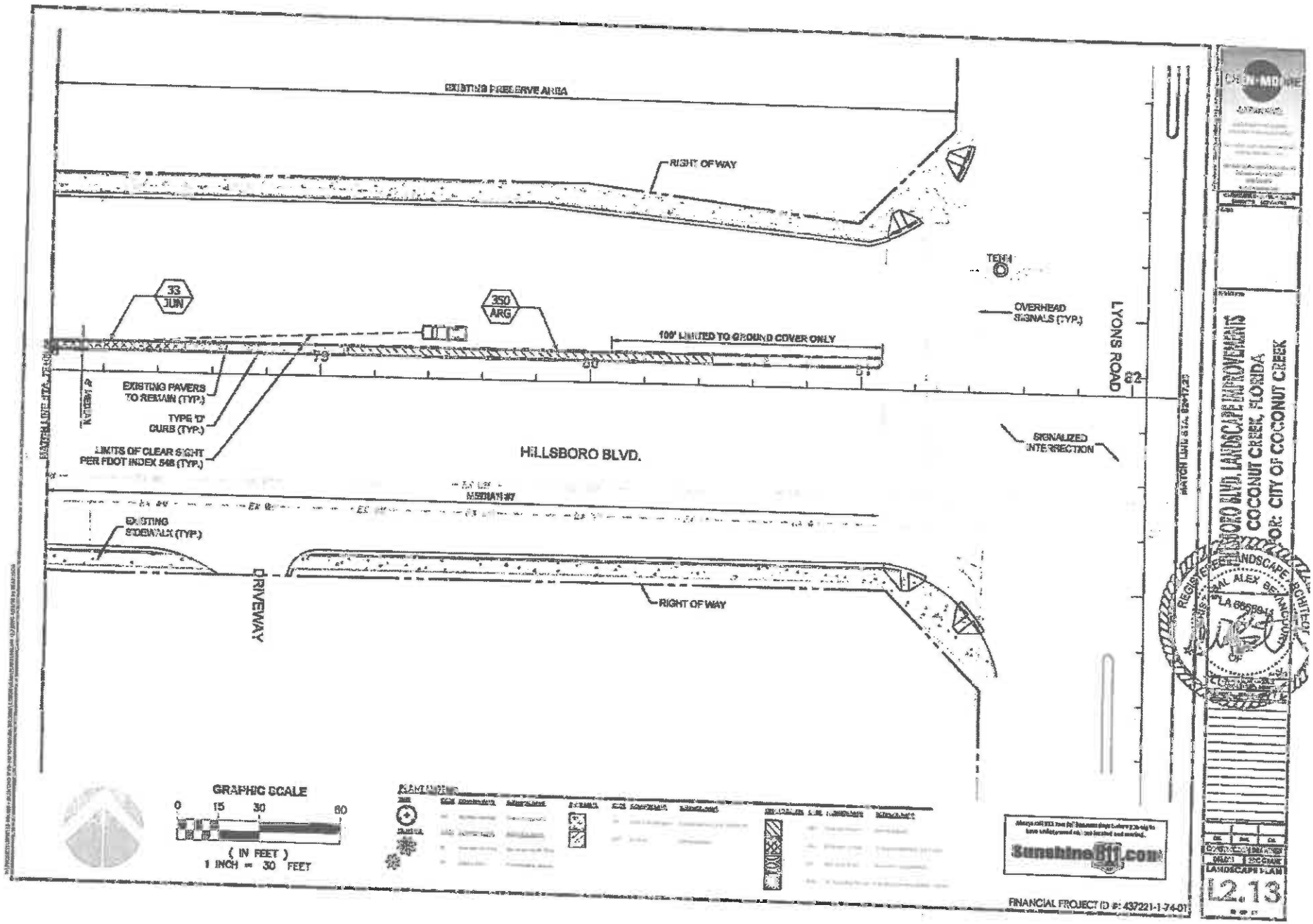

EXISTING PRESERVE AREA
RIGHT OF WAY
DRIVEWAY
MEDIAN
REPLACE SOD DAMAGED BY INSTALLATION ACTIVITIES AS NECESSARY (TYP.)
LIMITS OF CLEAR SIGHT PER FDOT INDEX 546 (TYP.)
EXISTING MULCH BED TO REMAIN
FRANGIBLE TREE (TYP.)
EXISTING CABBAGE PALM TO REMAIN (TYP.)
3 PE
70
71
20' (TYP.)
TYPE 'D' CURB (TYP.)
EXISTING PAVERS TO REMAIN (TYP.)
EXISTING DRAINAGE STRUCTURE
TYPE 'F' CURB (TYP.)
HILLSBORO BLVD.
LATERAL OFFSET
ROOT PRUNE EXISTING TREE TO ACCOMMODATE NEW IRRIGATION PER NOTES ON SHEET L2.00
EXISTING SIDEWALK (TYP.)
RIGHT OF WAY
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
PLANT LEGEND
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
CHEN MOORE
REGISTERED LANDSCAPE ARCHITECT
ALEX BETANCOURT
LA 6666941
STATE OF FLORIDA
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
FROM: COCONUT CREEK, FLORIDA
TO: CITY OF COCONUT CREEK
LANDSCAPE PLAN
L2.11

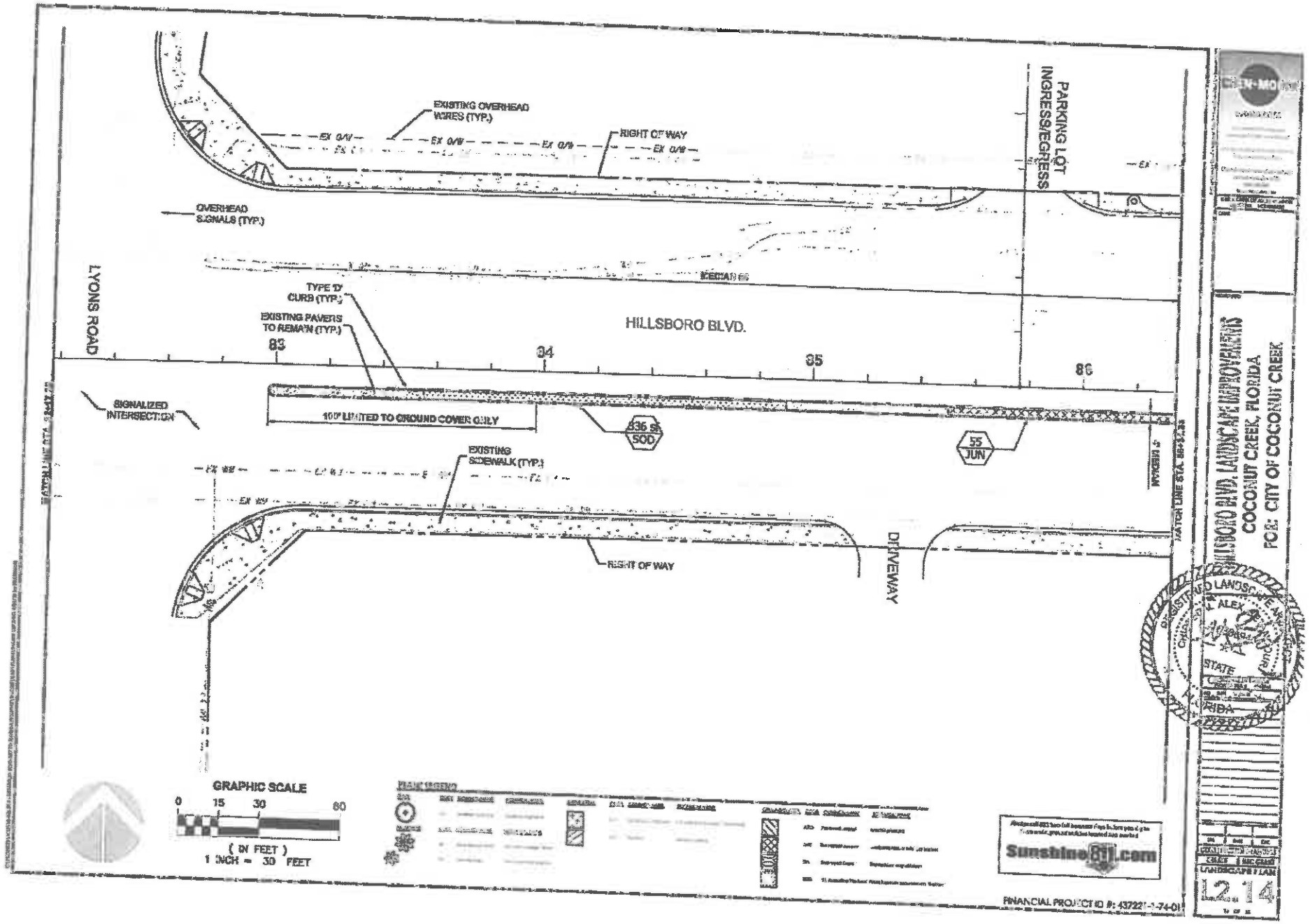


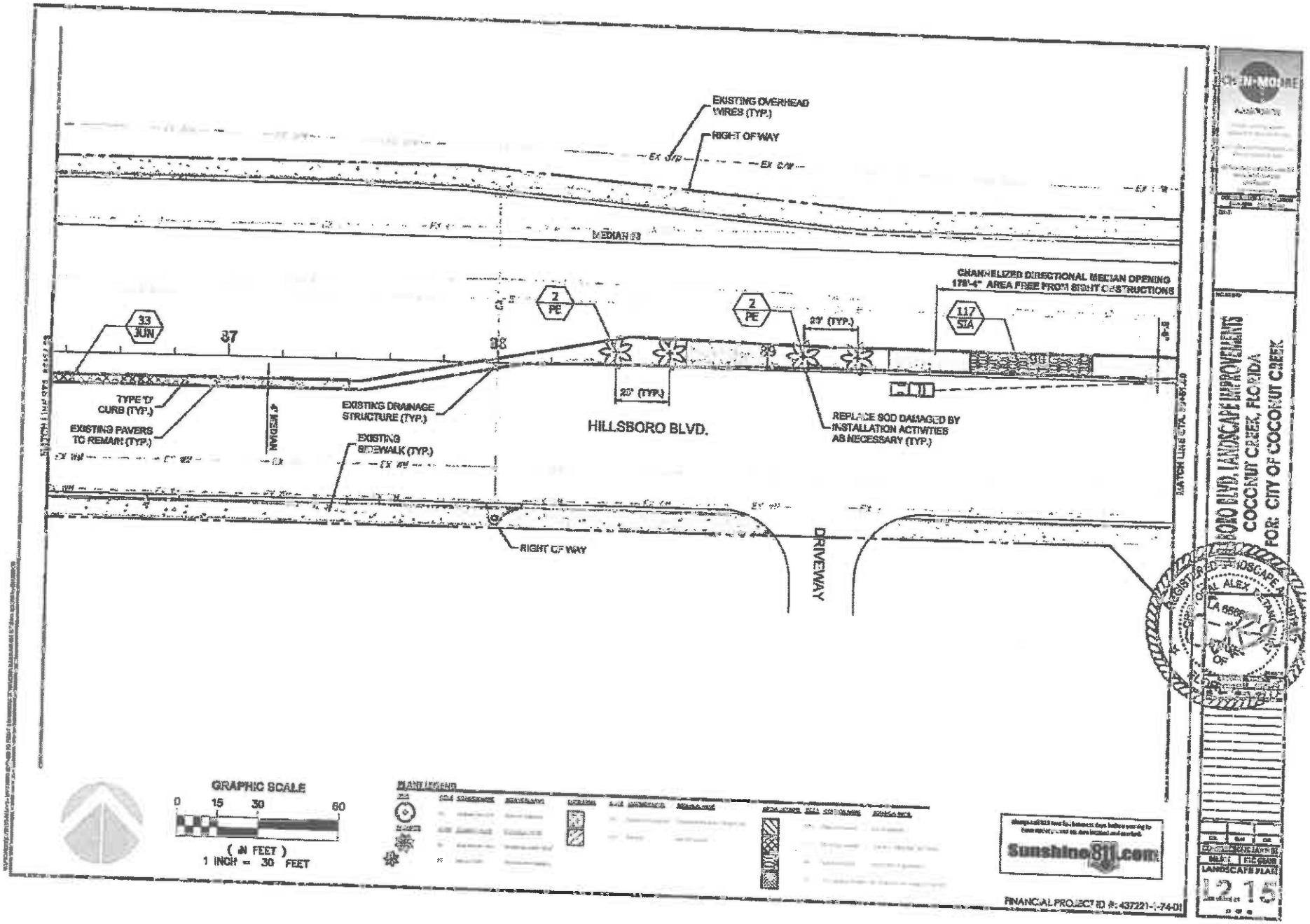
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

REGISTERED LANDSCAPE ARCHITECT
ALEX BE...
LA6628941
STATE OF

LANDSCAPE PLAN
L2.12


EXISTING PRESERVE AREA
RIGHT OF WAY
33
JUN
350
ARG
100' LIMITED TO GROUND COVER ONLY
TERM
OVERHEAD SIGNALS (TYP.)
LYONS ROAD
EXISTING PAVERS TO REMAIN (TYP.)
TYPE 'D' CURB (TYP.)
LIMITS OF CLEAR SIGHT PER FDOT INDEX 546 (TYP.)
HILLSBORO BLVD.
SIGNALIZED INTERSECTION
MEDIAN
EXISTING SIDEWALK (TYP.)
DRIVEWAY
RIGHT OF WAY
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
REGISTERED LANDSCAPE ARCHITECT
ALEX SEANNOUR
LA 6666944
LANDSCAPE PLAN
L2.13

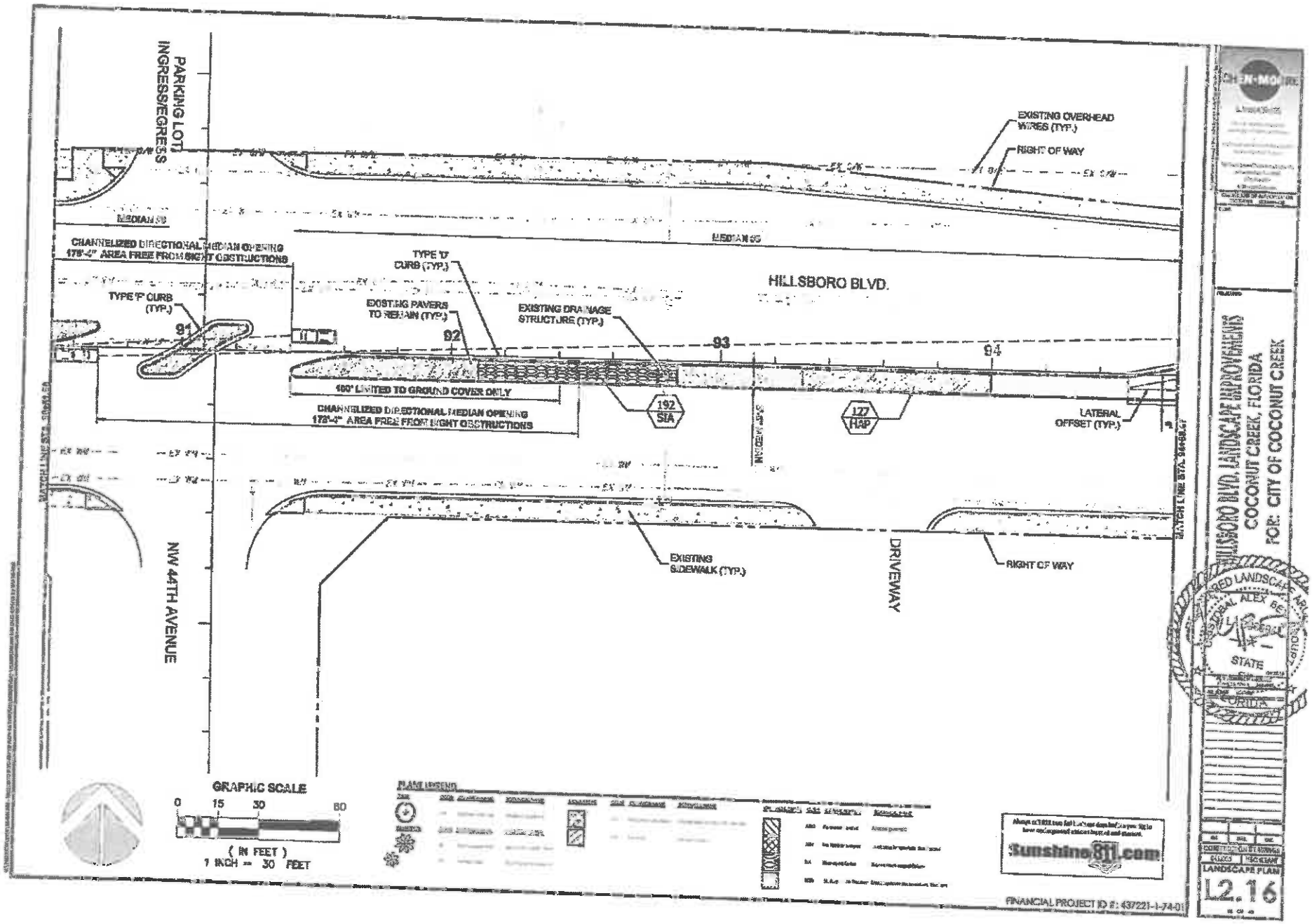

EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
PARKING LOT INGRESS/EGRESS
OVERHEAD SIGNALS (TYP.)
LYONS ROAD
TYPE 'D' CURB (TYP.)
EXISTING PAVERS TO REMAIN (TYP.)
HILLSBORO BLVD.
83
84
85
86
SIGNALIZED INTERSECTION
836 SY SOD
55 JUN
EXISTING SIDEWALK (TYP.)
RIGHT OF WAY
DRIVEWAY
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
Sunshine811.com
FINANCIAL PROJECT ID #: 43722
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
STATE
AIA
FLORIDA
LANDSCAPE PLAN
12
14

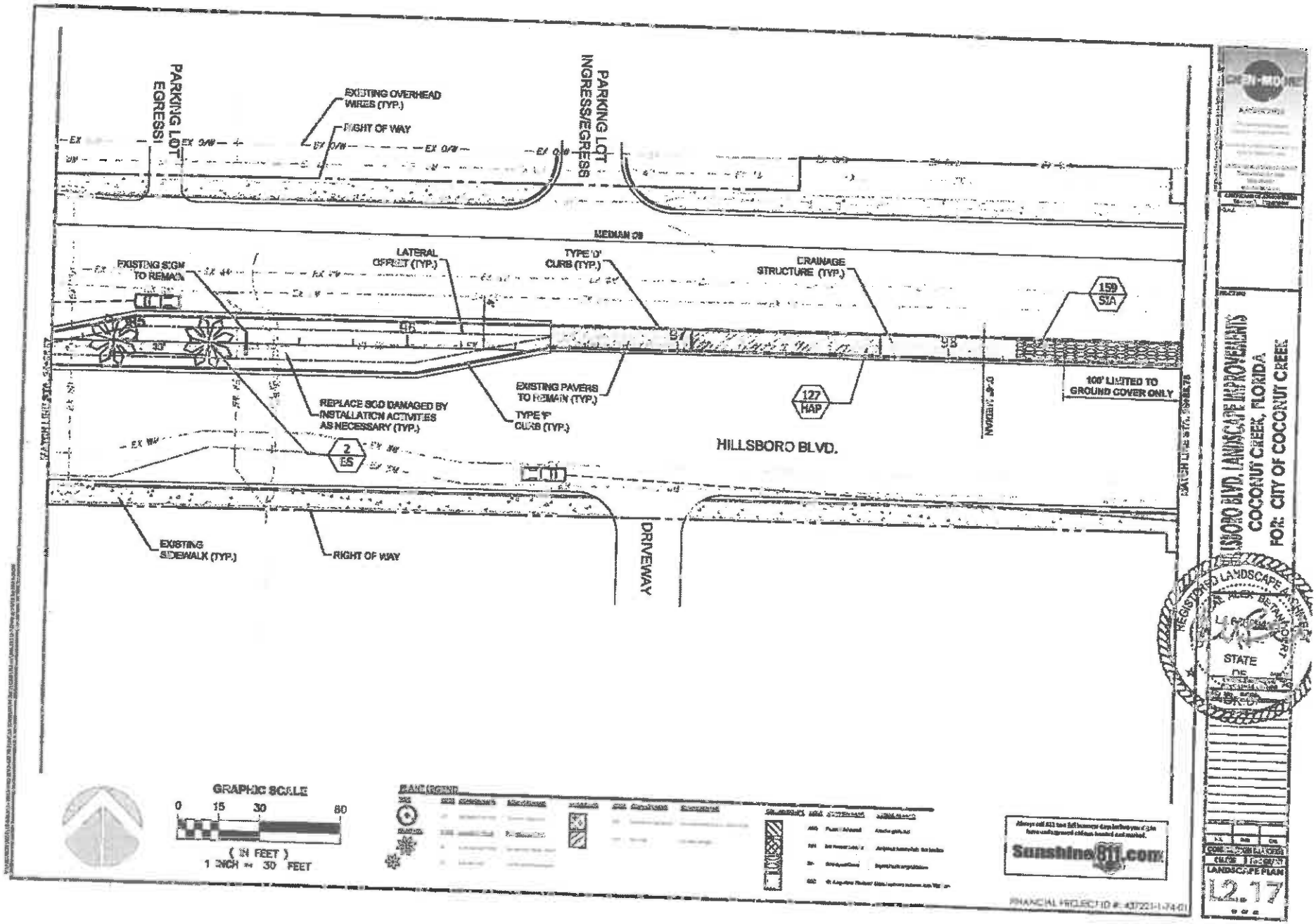


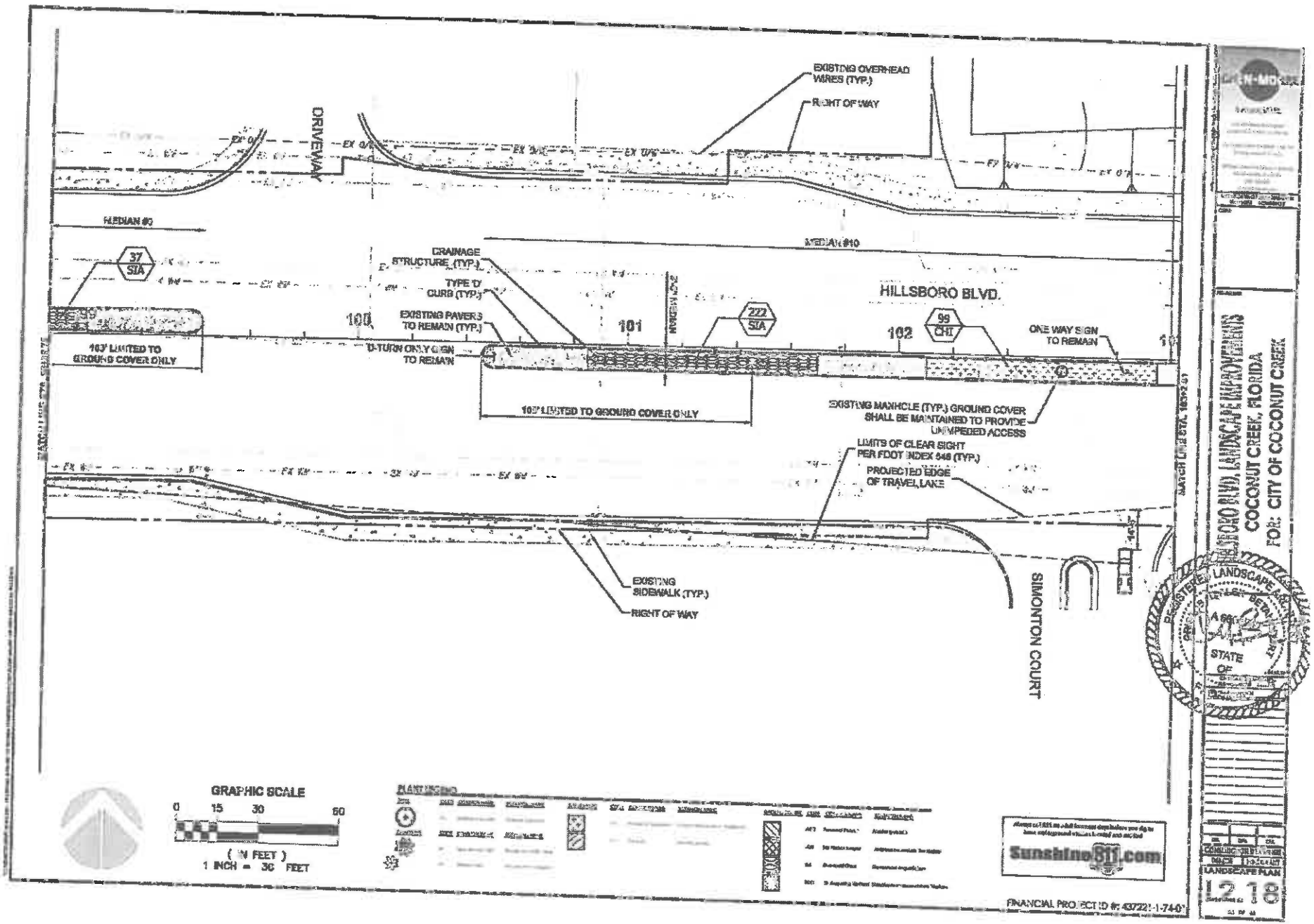
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

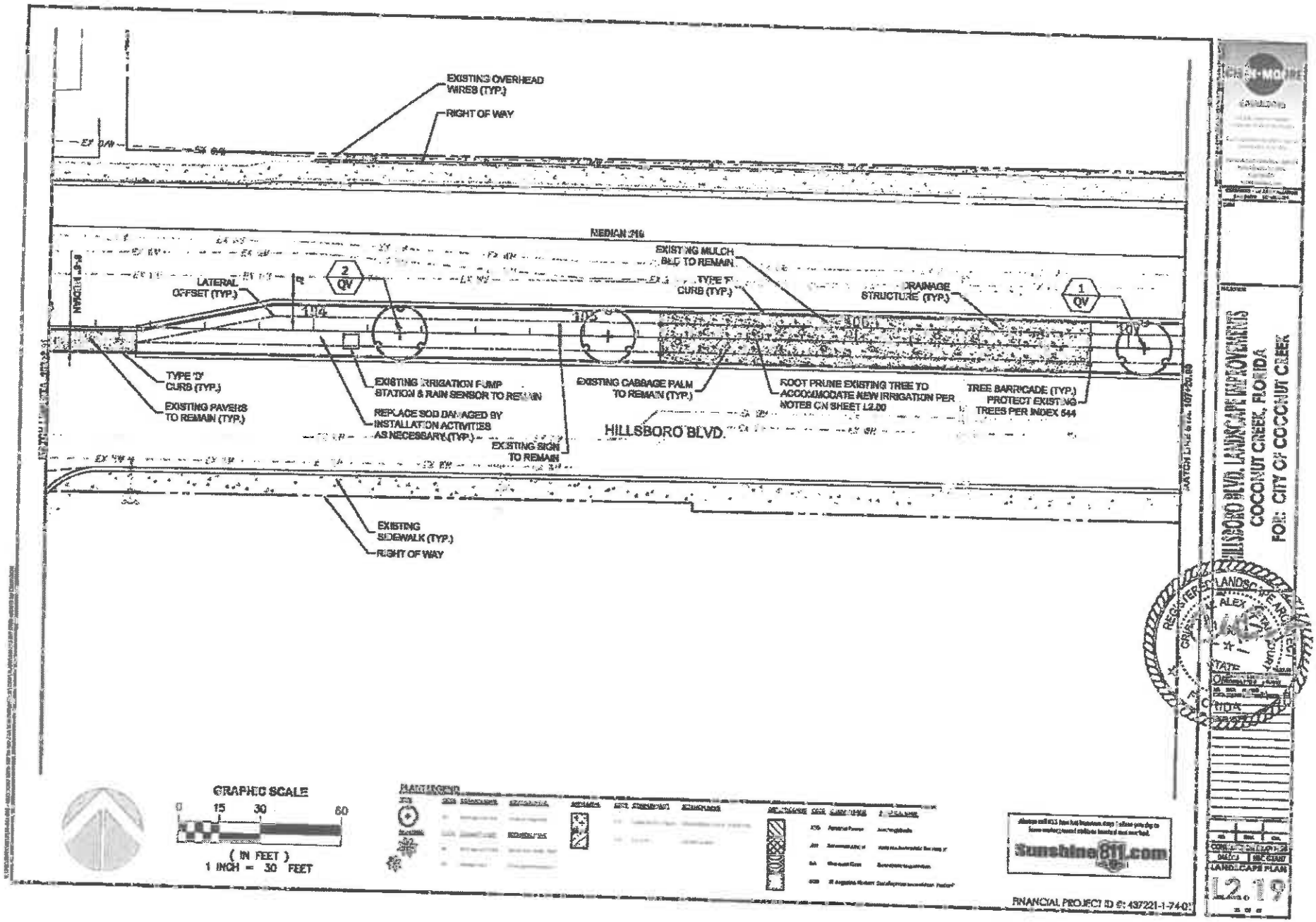
LANDSCAPE PLAN

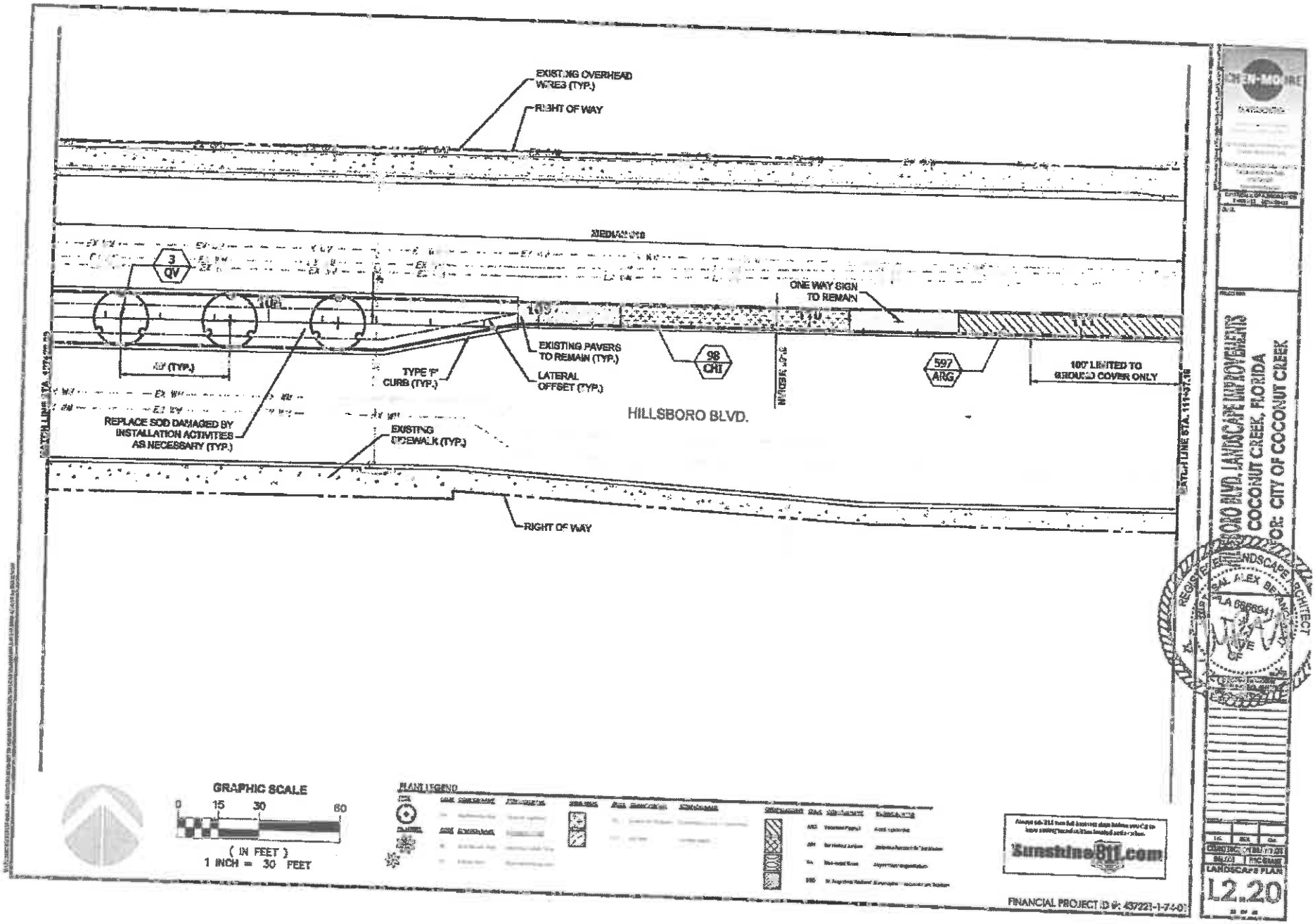
L2.15

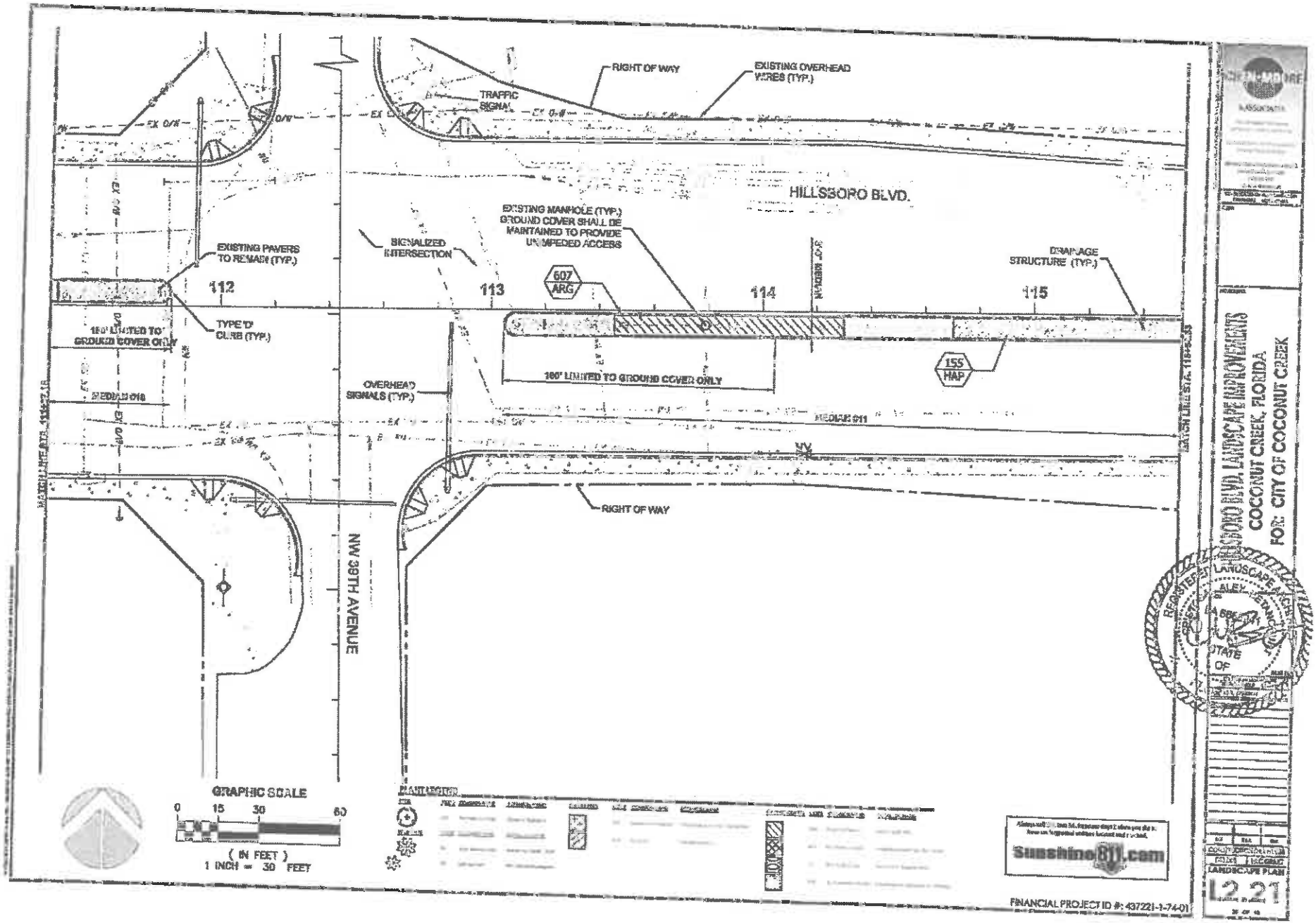

PARKING LOT INGRESS/EGRESS
EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
MEDIAN 95
CHANNELIZED DIRECTIONAL MEDIAN OPENING 175'-4" AREA FREE FROM SIGHT OBSTRUCTIONS
TYPE 'F' CURB (TYP.)
TYPE 'D' CURB (TYP.)
EXISTING PAVERS TO REMAIN (TYP.)
EXISTING DRAINAGE STRUCTURE (TYP.)
HILLSBORO BLVD.
91
92
93
94
100' LIMITED TO GROUND COVER ONLY
CHANNELIZED DIRECTIONAL MEDIAN OPENING 175'-4" AREA FREE FROM SIGHT OBSTRUCTIONS
192 SIA
127 HAP
LATERAL OFFSET (TYP.)
MATCH LINE STA. 90+50.00
MATCH LINE STA. 94+50.00
NW 44TH AVENUE
EXISTING SIDEWALK (TYP.)
DRIVEWAY
RIGHT OF WAY
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
PLANT LEGEND
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
REGISTERED LANDSCAPE ARCHITECT
ALEX BELL
STATE OF FLORIDA
LANDSCAPE PLAN
L2.16


PARKING LOT EGRESS
EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
PARKING LOT INGRESS/EGRESS
MEDIAN
EXISTING SIGN TO REMAIN
LATERAL OFFSET (TYP.)
TYPE 'D' CURB (TYP.)
DRAINAGE STRUCTURE (TYP.)
159 STA
127 HAP
100' LIMITED TO GROUND COVER ONLY
EXISTING PAVERS TO REMAIN (TYP.)
REPLACE SOD DAMAGED BY INSTALLATION ACTIVITIES AS NECESSARY (TYP.)
TYPE 'F' CURB (TYP.)
2 ES
HILLSBORO BLVD.
EXISTING SIDEWALK (TYP.)
RIGHT OF WAY
DRIVEWAY
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
PLANT LEGEND
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
REGISTERED LANDSCAPE ARCHITECT
STATE OF
LANDSCAPE PLAN
L2.17


EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
DRIVEWAY
MEDIAN #9
MEDIAN #10
37 SIA
CRAINAGE STRUCTURE (TYP.)
TYPE 'D' CURB (TYP.)
EXISTING PAVERS TO REMAIN (TYP.)
100
101
222 SIA
HILLSBORO BLVD.
102
99 CHI
ONE WAY SIGN TO REMAIN
103' LIMITED TO GROUND COVER ONLY
U-TURN ONLY SIGN TO REMAIN
102' LIMITED TO GROUND COVER ONLY
EXISTING MANHOLE (TYP.) GROUND COVER SHALL BE MAINTAINED TO PROVIDE UNIMPEDED ACCESS
LIMITS OF CLEAR SIGHT PER FDOT INDEX 546 (TYP.)
PROJECTED EDGE OF TRAVEL LANE
EXISTING SIDEWALK (TYP.)
RIGHT OF WAY
SIMONTON COURT
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
PLANTING
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
REGISTERED LANDSCAPE ARCHITECT
STATE OF
LANDSCAPE PLAN
L2.18


EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
MEDIAN #16
EXISTING MULCH BED TO REMAIN
LATERAL OFFSET (TYP.)
TYPE F CURB (TYP.)
DRAINAGE STRUCTURE (TYP.)
TYPE 'D' CURB (TYP.)
EXISTING PAVERS TO REMAIN (TYP.)
EXISTING IRRIGATION PUMP STATION & RAIN SENSOR TO REMAIN
REPLACE SOD DAMAGED BY INSTALLATION ACTIVITIES AS NECESSARY (TYP.)
EXISTING CABBAGE PALM TO REMAIN (TYP.)
ROOT PRUNE EXISTING TREE TO ACCOMMODATE NEW IRRIGATION PER NOTES ON SHEET L2.00
TREE BARRICADE (TYP.) PROTECT EXISTING TREES PER INDEX 544
EXISTING SIGN TO REMAIN
HILLSBORO BLVD.
EXISTING SIDEWALK (TYP.)
RIGHT OF WAY
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
PLANT LEGEND
Sunshine811.com
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
LANDSCAPE PLAN
L2.19
FINANCIAL PROJECT ID #: 437221-1-74-01

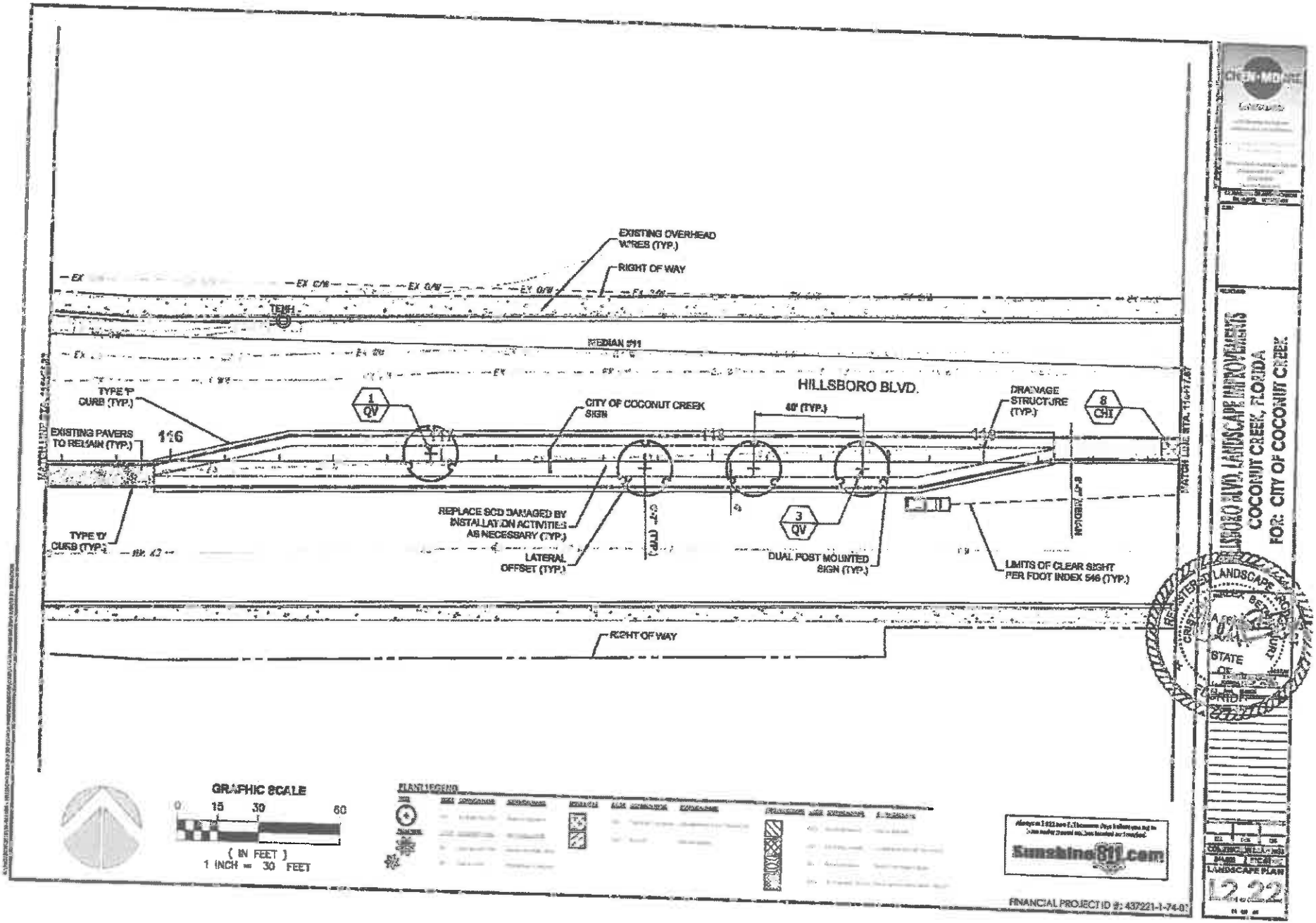

EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
MEDIAN VARIES
3 QV
10' (TYP.)
ONE WAY SIGN TO REMAIN
EXISTING PAVERS TO REMAIN (TYP.)
TYPE 'F' CURB (TYP.)
LATERAL OFFSET (TYP.)
98 CHI
597 A/G
100' LIMITED TO GROUND COVER ONLY
HILLSBORO BLVD.
REPLACE SOD DAMAGED BY INSTALLATION ACTIVITIES AS NECESSARY (TYP.)
EXISTING SIDEWALK (TYP.)
RIGHT OF WAY
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
PLANT LEGEND
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
CHEN-MOORE
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
REGISTERED LANDSCAPE ARCHITECT
ALEX BERMUDEZ
LA 0666941
STATE OF FLORIDA
LANDSCAPE PLAN
L2.20

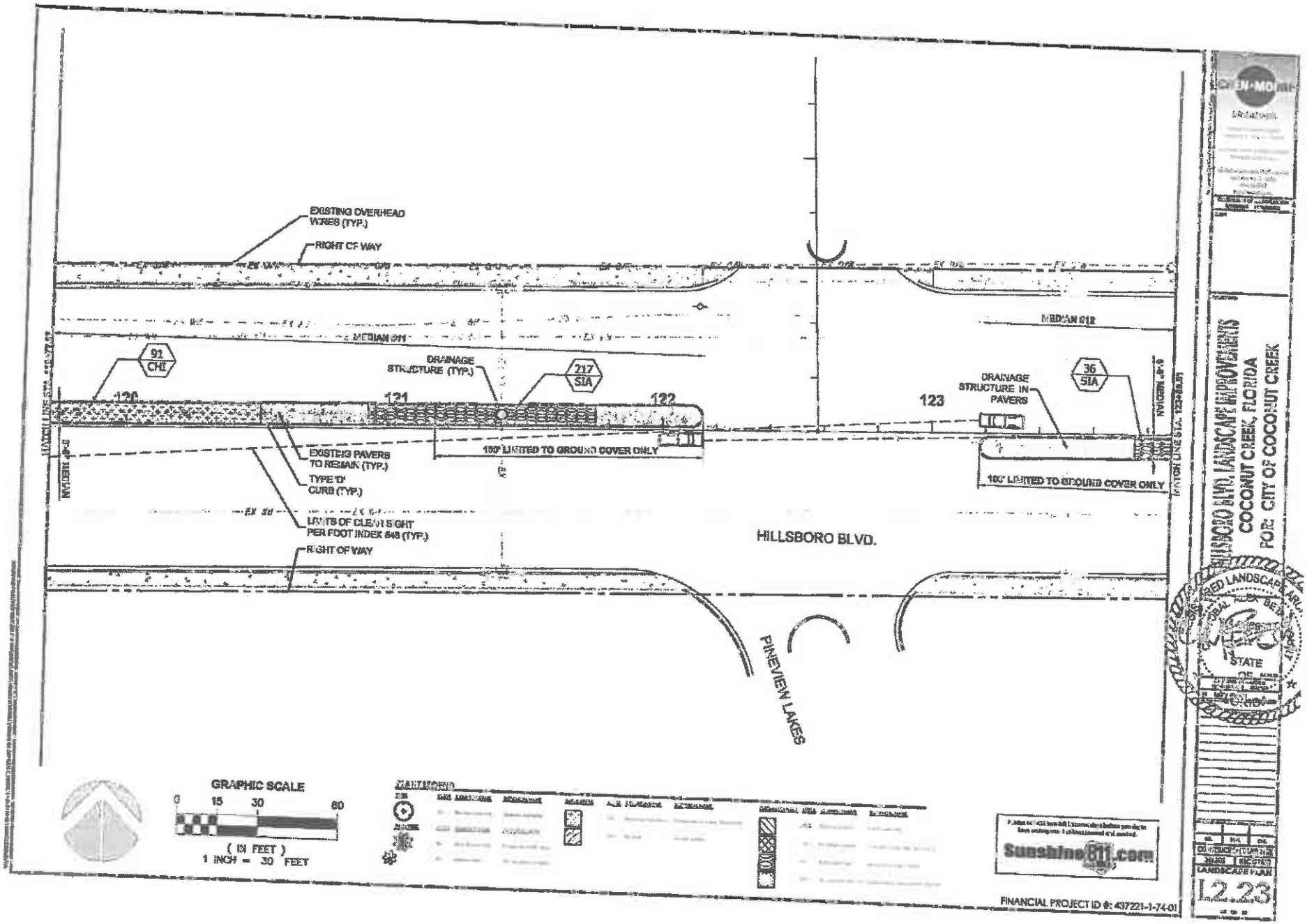


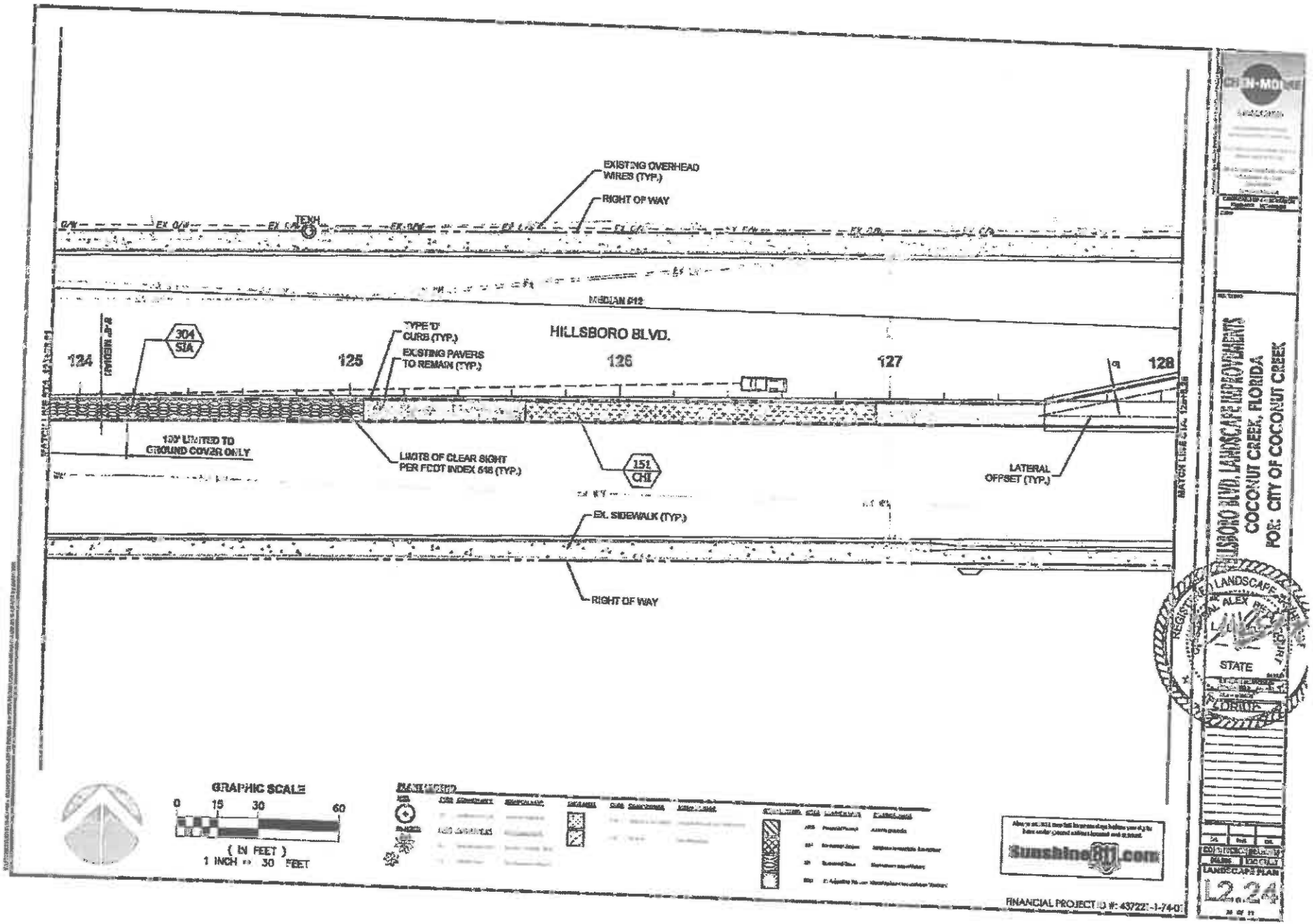
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

REGISTERED LANDSCAPE ARCHITECT
ALEX TECHNICO
STATE OF

LANDSCAPE PLAN
L2.21


EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
MEDIAN 511
HILLSBORO BLVD.
TYPE 'F' CURB (TYP.)
EXISTING PAVERS TO REMAIN (TYP.)
116
1 QV
CITY OF COCONUT CREEK SIGN
40' (TYP.)
DRAINAGE STRUCTURE (TYP.)
8 CHI
REPLACE SOD DAMAGED BY INSTALLATION ACTIVITIES AS NECESSARY (TYP.)
TYPE 'D' CURB (TYP.)
LATERAL OFFSET (TYP.)
3 QV
DUAL POST MOUNTED SIGN (TYP.)
LIMITS OF CLEAR SIGHT PER FDOT INDEX 546 (TYP.)
RIGHT OF WAY
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
PLANT LEGEND
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
LANDSCAPE ARCHITECT
STATE OF
LANDSCAPE PLAN
L2.22


EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
MEDIAN #11
MEDIAN #12
91 CHE
DRAINAGE STRUCTURE (TYP.)
217 SIA
36 SIA
DRAINAGE STRUCTURE IN PAVERS
120
121
122
123
EXISTING PAVERS TO REMAIN (TYP.)
TYPE 'D' CURB (TYP.)
100' LIMITED TO GROUND COVER ONLY
100' LIMITED TO GROUND COVER ONLY
LIMITS OF CLEAR SIGHT PER FDOT INDEX 546 (TYP.)
RIGHT OF WAY
HILLSBORO BLVD.
PINEVIEW LAKES
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
STATE
LANDSCAPE PLAN
L2.23



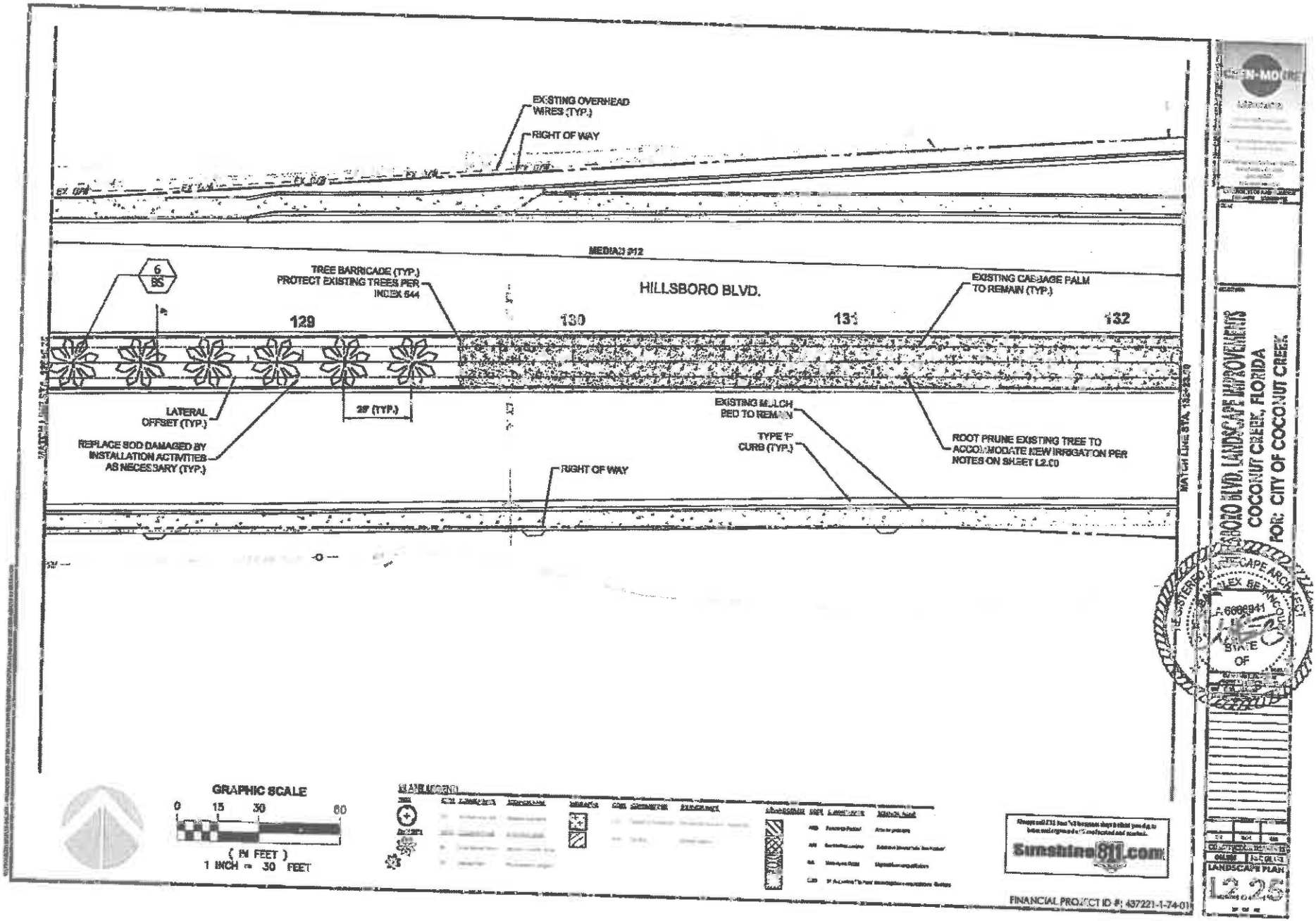
CHEN-MOORE

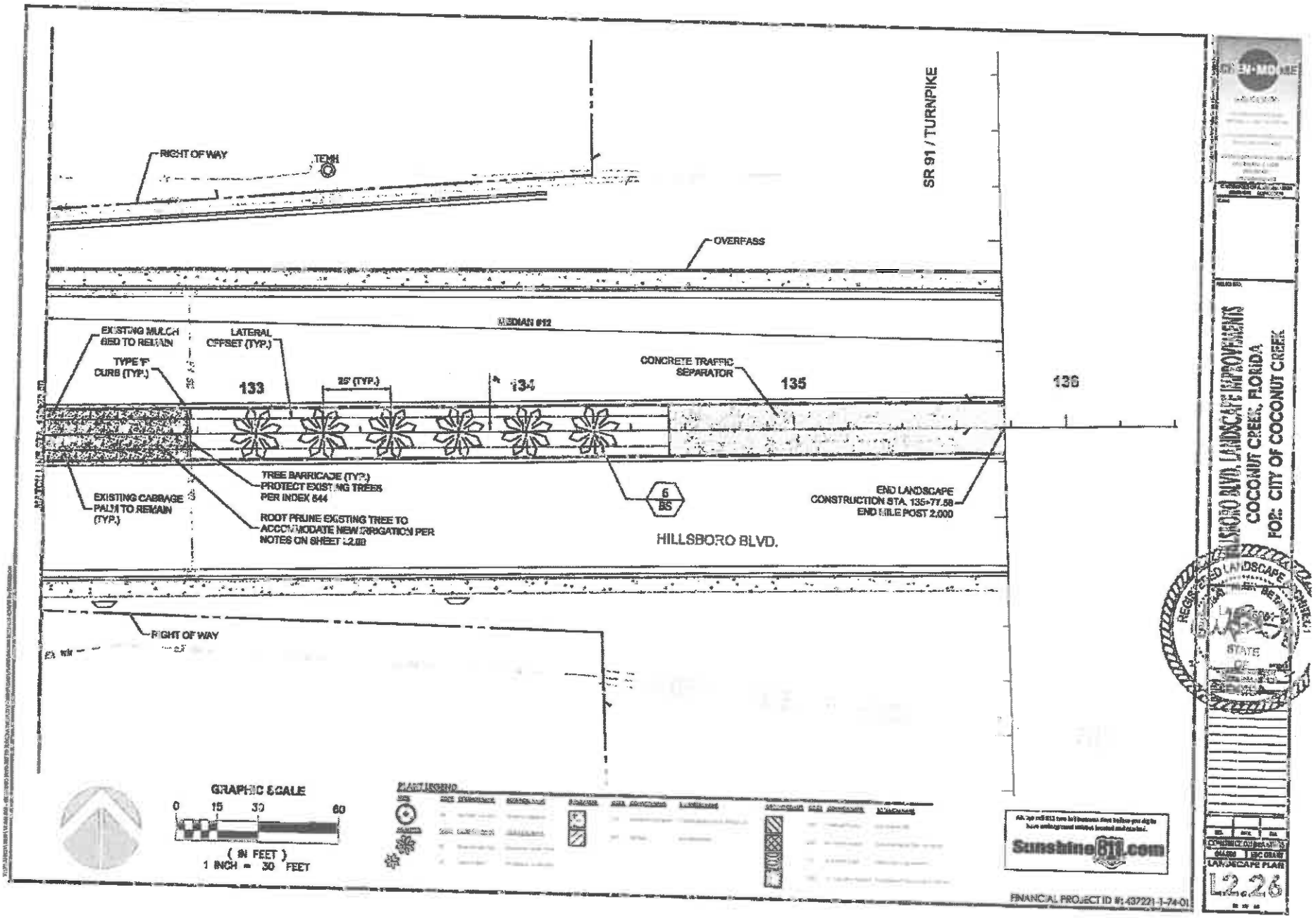
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

LANDSCAPE
ALEX
STATE
FLORIDA

LANDSCAPE PLAN

L2.24


EXISTING OVERHEAD WIRES (TYP.)
RIGHT OF WAY
MEDIAN #12
HILLSBORO BLVD.
TREE BARRICADE (TYP.) PROTECT EXISTING TREES PER INDEX 544
EXISTING CABBAGE PALM TO REMAIN (TYP.)
129
130
131
132
LATERAL OFFSET (TYP.)
28' (TYP.)
REPLACE SOD DAMAGED BY INSTALLATION ACTIVITIES AS NECESSARY (TYP.)
EXISTING MULCH BED TO REMAIN
TYPE 'F' CURB (TYP.)
ROOT PRUNE EXISTING TREE TO ACCOMMODATE NEW IRRIGATION PER NOTES ON SHEET L2.00
RIGHT OF WAY
MATCH LINE STA. 133+22.70
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
LANDSCAPE PLAN
L2.25


RIGHT OF WAY
TEMH
SR 91 / TURNPIKE
OVERPASS
MEDIAN #12
EXISTING MULCH BED TO REMAIN
LATERAL OFFSET (TYP.)
TYPE 'F' CURB (TYP.)
133
25' (TYP.)
134
CONCRETE TRAFFIC SEPARATOR
135
136
TREE BARRICADE (TYP.) PROTECT EXISTING TREES PER INDEX 544
EXISTING CABBAGE PALM TO REMAIN (TYP.)
ROOT PRUNE EXISTING TREE TO ACCOMMODATE NEW IRRIGATION PER NOTES ON SHEET L2.00
6 BS
END LANDSCAPE CONSTRUCTION STA. 135+77.58 END MILE POST 2.000
HILLSBORO BLVD.
RIGHT OF WAY
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
PLANT LEGEND
SunshineBill.com
FINANCIAL PROJECT ID #: 437221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
REGISTERED LANDSCAPE ARCHITECT
STATE OF FLORIDA
LANDSCAPE PLANS
L2.26

GENERAL NOTES

1. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
2. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ASSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
3. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
4. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY OF THE POWER LINES.
5. MAINLINE LOCATION, WHERE SHOWN, IS FOR GRAPHIC CLARITY PURPOSES ONLY. INSTALL AT THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR ADJACENT TO OTHER HARDSCAPES TO FACILITATE FUTURE LOCATION AND TO PROTECT FROM DAMAGE. ENSURE MAINLINE IS INSTALLED ACCORDING TO THE IRRIGATION SPECIFICATIONS AND DETAILS.
6. IF IT IS NECESSARY TO HAVE PIPING UNDER HARDSCAPE AREAS SUCH AS ROADS, WALKS AND PATIOS, THE PIPES MUST BE SLEEVED USING SCH 40 PVC WITH THE SLEEVE DIAMETER BEING AT LEAST TWICE THE SIZE OF THE PIPE IT IS CARRYING.
7. ANY MAJOR DESIGN CHANGES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO CONSTRUCTION. CONTRACTOR PROCEEDS WITH CHANGES AT OWN RISK.
8. NO SUBSTITUTIONS SHALL BE PERMITTED EXCEPT WITH WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT OF RECORD.

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	PSI	PSI @ POC	GPM	PRECIP
A-1	Rain Bird PESB-PRS-D	2"	Turf Spray	[illegible]	44.44	64.78	[illegible]
A-2	Rain Bird PESB-PRS-D	2"	Turf Spray	[illegible]	41.47	[illegible]	1.59 in/h
A-3	Rain Bird PESB-PRS-D	2"	Turf Spray	39.34	40.39	[illegible]	1.40 in/h
A-4	Rain Bird PESB-PRS-D	2"	Turf Spray	41.18	43.01	[illegible]	[illegible]
A-5	Rain Bird PESB-PRS-D	2"	Shrub Spray	26.37	20.85	17.34	[illegible]
A-6	Rain Bird PESB-PRS-D	2"	Turf Spray	[illegible]	[illegible]	47.25	1.40 in/h
A-7	Rain Bird PESB-PRS-D	2"	Turf Spray	40.79	[illegible]	45.72	1.41 in/h
A-8	Rain Bird PESB-PRS-D	2"	Turf Spray	35.66	[illegible]	28.17	1.44 in/h
A-9	Rain Bird PESB-PRS-D	2"	Shrub Spray	40.94	[illegible]	37.21	[illegible]
B-1	Rain Bird PESB-PRS-D	2"	Turf Spray	[illegible]	[illegible]	[illegible]	[illegible]
B-2	Rain Bird PESB-PRS-D	2"	Shrub Spray	[illegible]	[illegible]	[illegible]	[illegible]
B-3	Rain Bird PESB-PRS-D	2"	Turf Spray	[illegible]	41.22	[illegible]	1.46 in/h
B-4	Rain Bird PESB-PRS-D	2"	Shrub Spray	36.31	32.92	[illegible]	1.34 in/h
B-5	Rain Bird PESB-PRS-D	2"	Shrub Spray	[illegible]	[illegible]	[illegible]	[illegible]
B-6	Rain Bird PESB-PRS-D	2"	Turf Spray	37.87	43.12	[illegible]	[illegible]
B-7	Rain Bird PESB-PRS-D	2"	Turf Spray	36.34	40.33	62.30	[illegible]
B-8	Rain Bird PESB-PRS-D	2"	Shrub Spray	[illegible]	37.80	16.40	[illegible]
B-9	Rain Bird PESB-PRS-D	2"	Shrub Spray	[illegible]	38.20	29.40	1.37 in/h
B-10	Rain Bird PESB-PRS-D	2"	Turf Spray	43.32	47.17	78.72	[illegible]
B-11	Rain Bird PESB-PRS-D	2"	Shrub Spray	[illegible]	30.83	25.40	[illegible]
B-12	Rain Bird PESB-PRS-D	2"	Shrub Spray	[illegible]	43.16	[illegible]	[illegible]
B-13	Rain Bird PESB-PRS-D	2"	Turf Spray	[illegible]	44.42	45.63	[illegible]
B-14	Rain Bird PESB-PRS-D	2"	Turf Spray	[illegible]	[illegible]	44.35	1.54 in/h

IRRIGATION SCHEDULE

[illegible]

...SBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

IRRIGATION [illegible]

L3.00

FINANCIAL PROJECT ID #: 437221-1-74-[illegible]

HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

L3.01

HILLSBORO BLVD.

STATE ROAD 7/US441

32

31

30

29

28

REMAIN IRRIGATION CONSTRUCTION
STA. 29+27.41
MTUE POST 0.000

GRAPHIC SCALE

0 15 30 60

(IN FEET)
1 INCH = 30 FEET

Sunshine811.com

FINANCIAL PROJECT ID #: 439211-1-7401

PARKING LOT INGRESS/EGRESS
PARKING LOT
EGRESS
GRAPHIC SCALE
0
15
30
60
(IN FEET)
1 INCH = 30 FEET
L3.02

MILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
L3.03
PARKING LOT INGRESS/EGRESS
DRIVEWAY
GRAPHIC SCALE
(IN FEET)
1 INCH = 30 FEET

HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

13.04

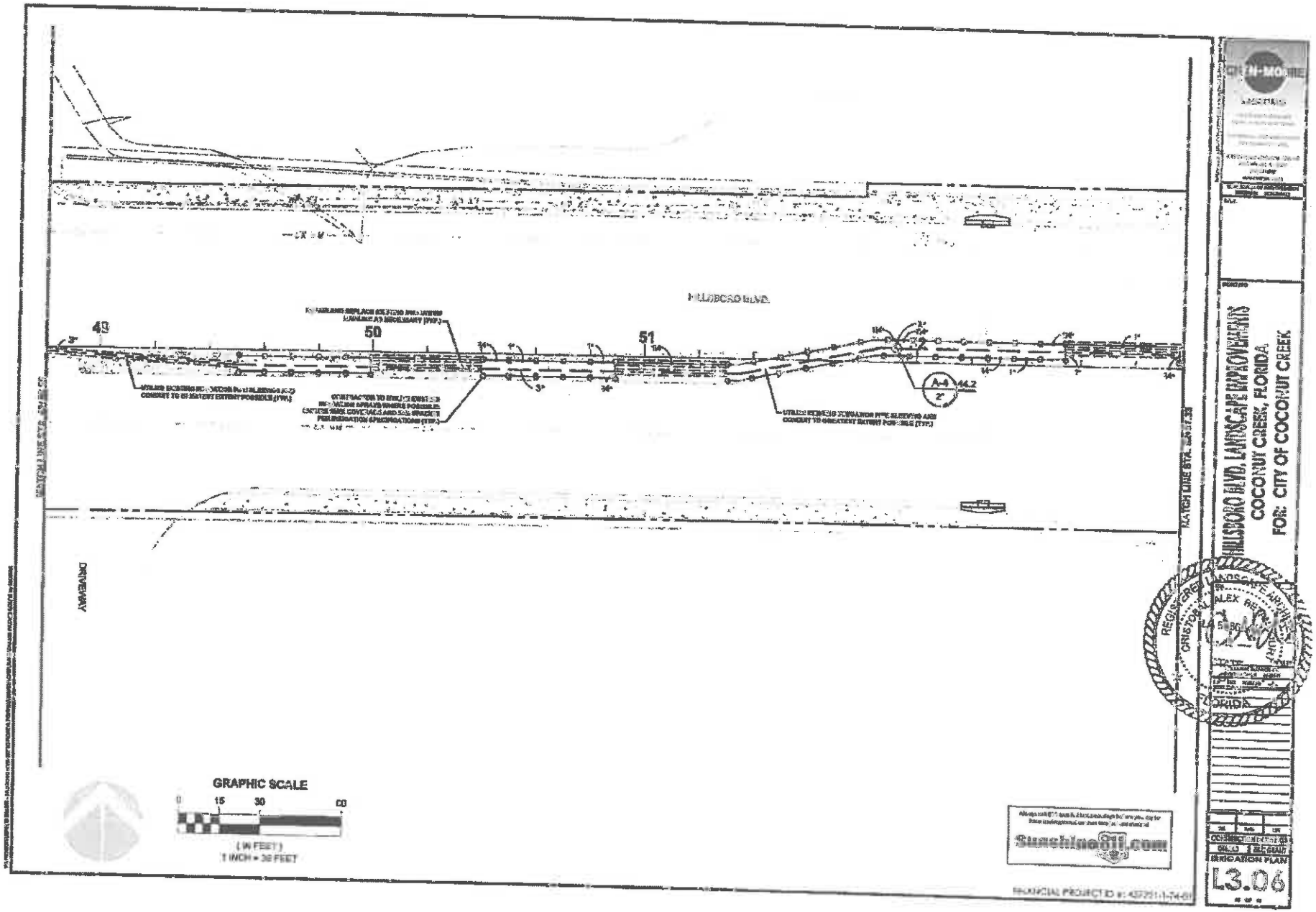
PARKING LOT EGRESS

HILLSBORO BLVD.

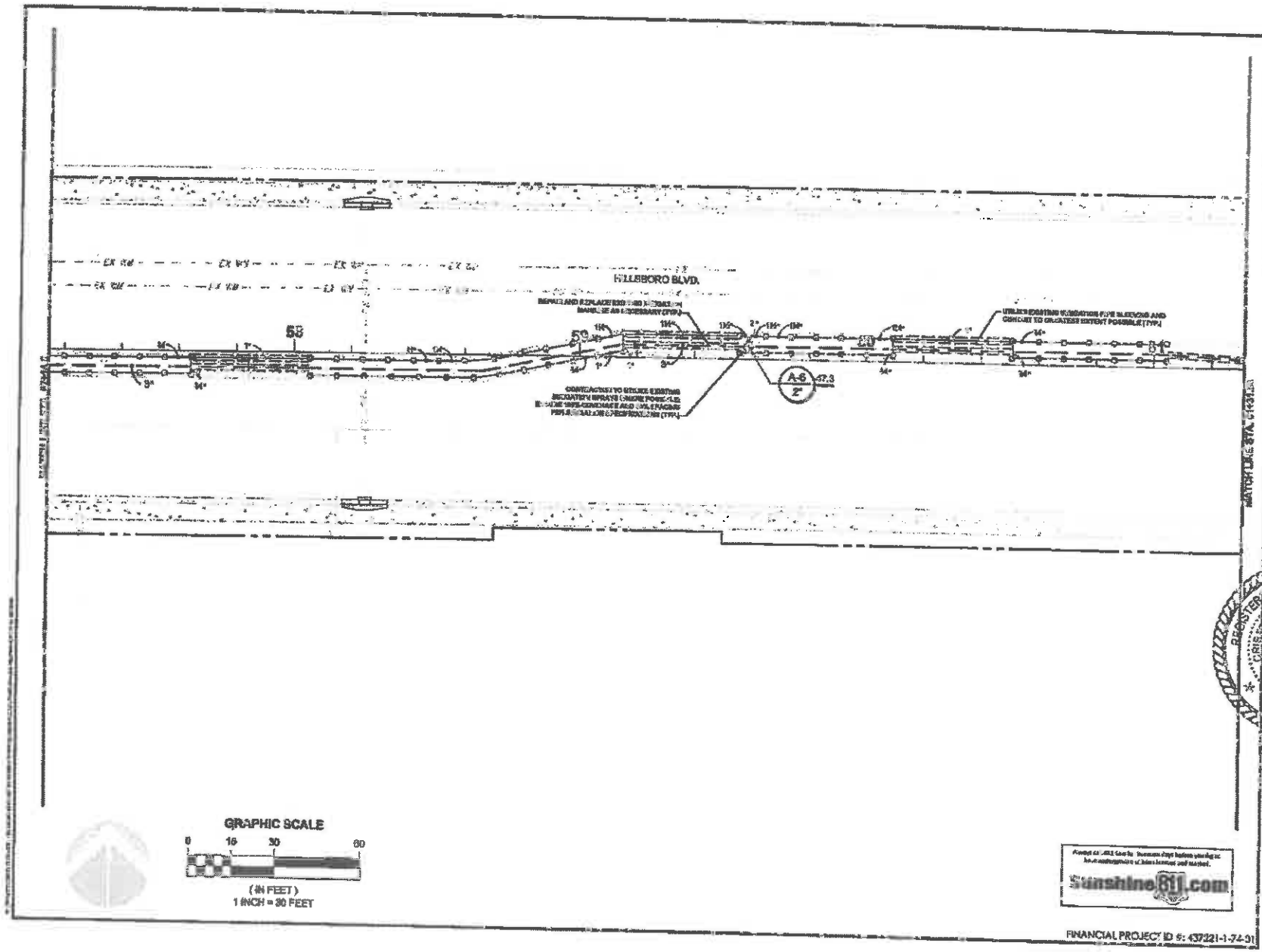
PARKING LOT INGRESS/EGRESS

GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET

DRIVEWAY
DRIVEWAY
DRIVEWAY
GRAPHIC SCALE
0
15
30
60
(IN FEET)
1 INCH = 30 FEET
L3.05
FINANCIAL PROJECT ID #: 437221-1-74-01


HILLSBORO BLVD.
49
50
51
A-4
14.2
DRIVEWAY
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
Sunshine811.com
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
IRRIGATION PLAN
L3.06

NW 61ST TER.
NW 61ST TER.
GRAPHIC SCALE
0
15
30
60
(IN FEET)
1 INCH = 30 FEET

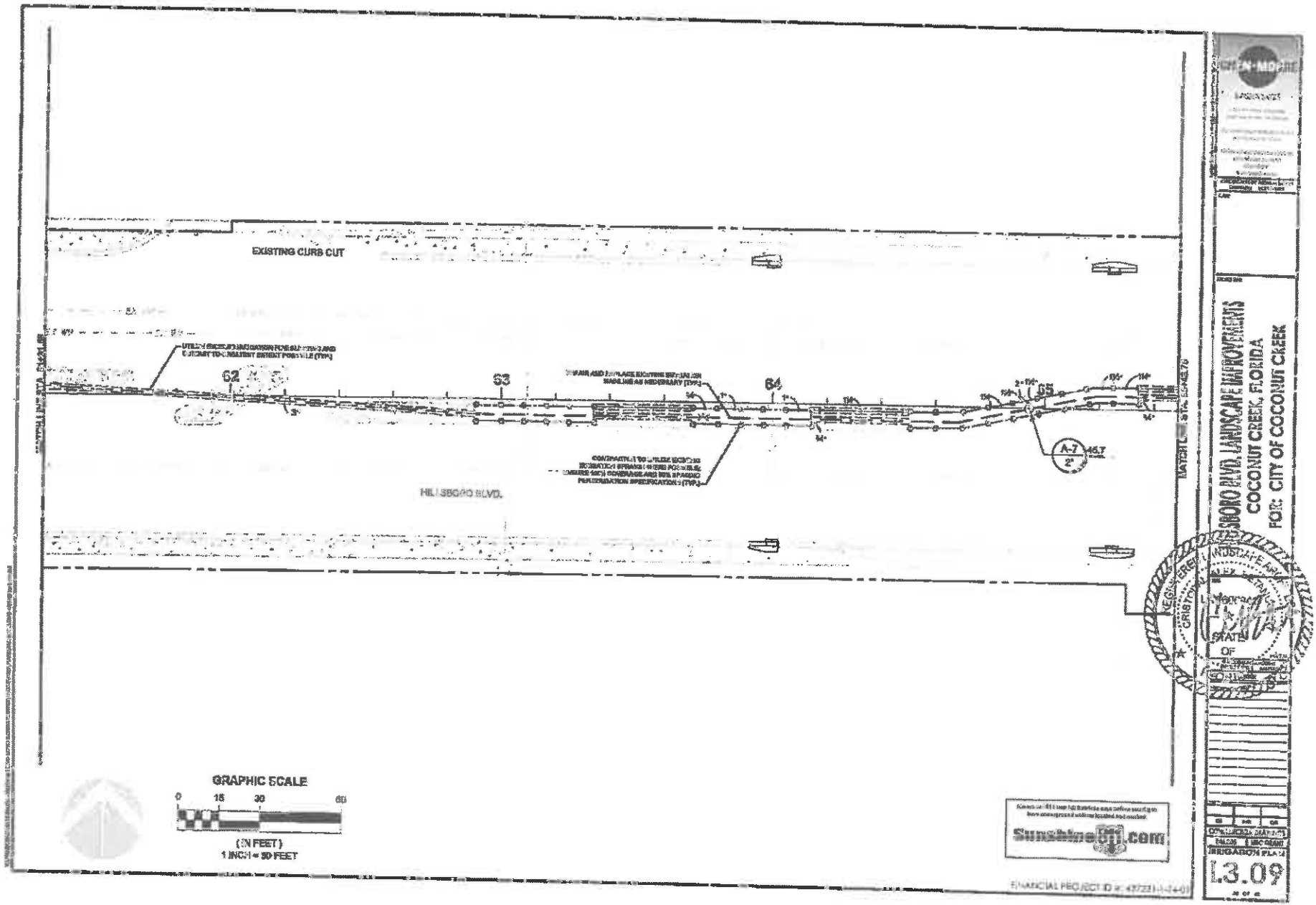


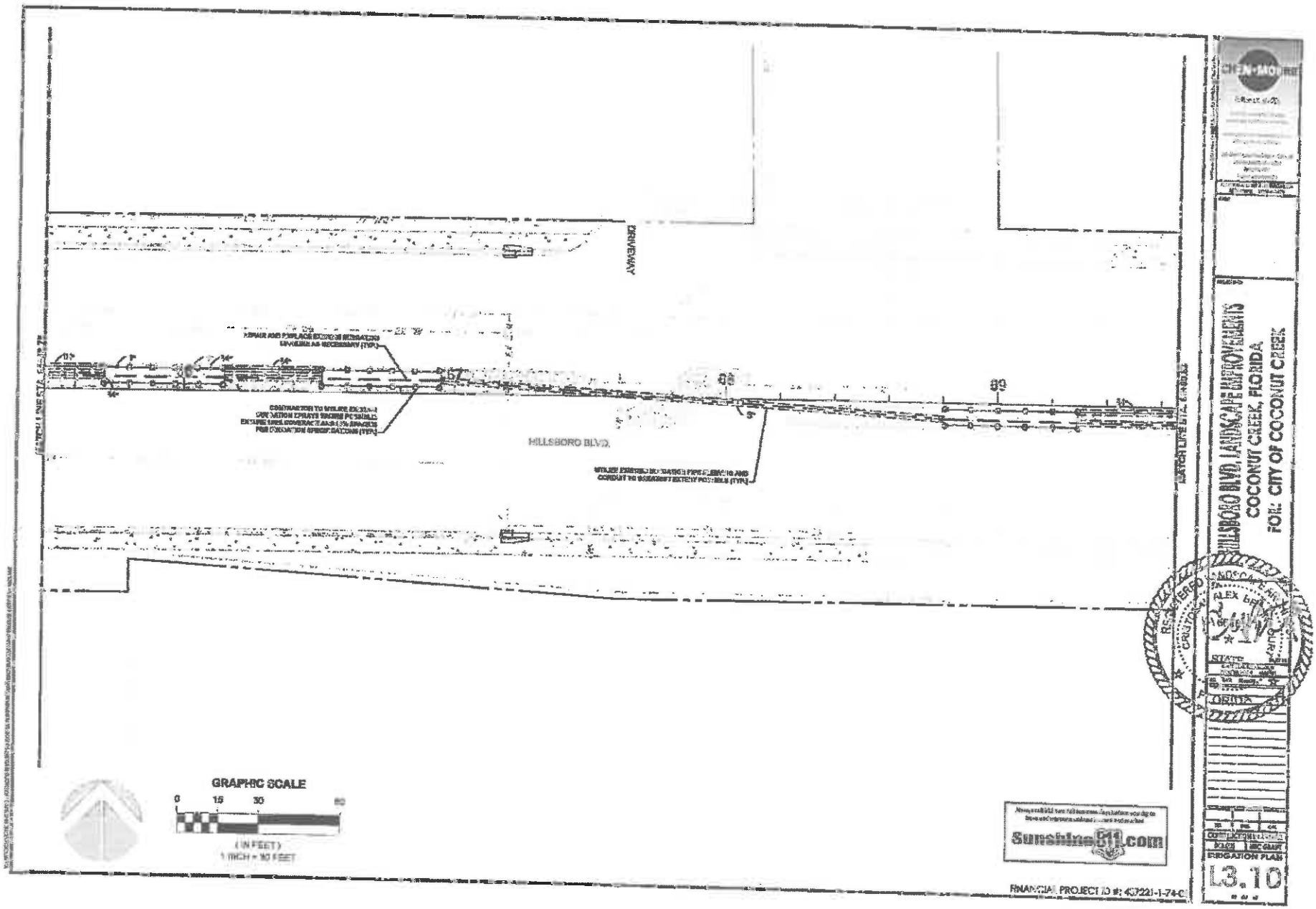
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

IRRIGATION PLAN

L3.09

FINANCIAL PROJECT ID #: 437221-1-74-01


EXISTING CURB CUT
62
63
64
65
A-7
2"
15.7
HILLSBORO BLVD.
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
Sunshine811.com
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
IRRIGATION PLAN
L3.09



CHEN·MOORE

HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

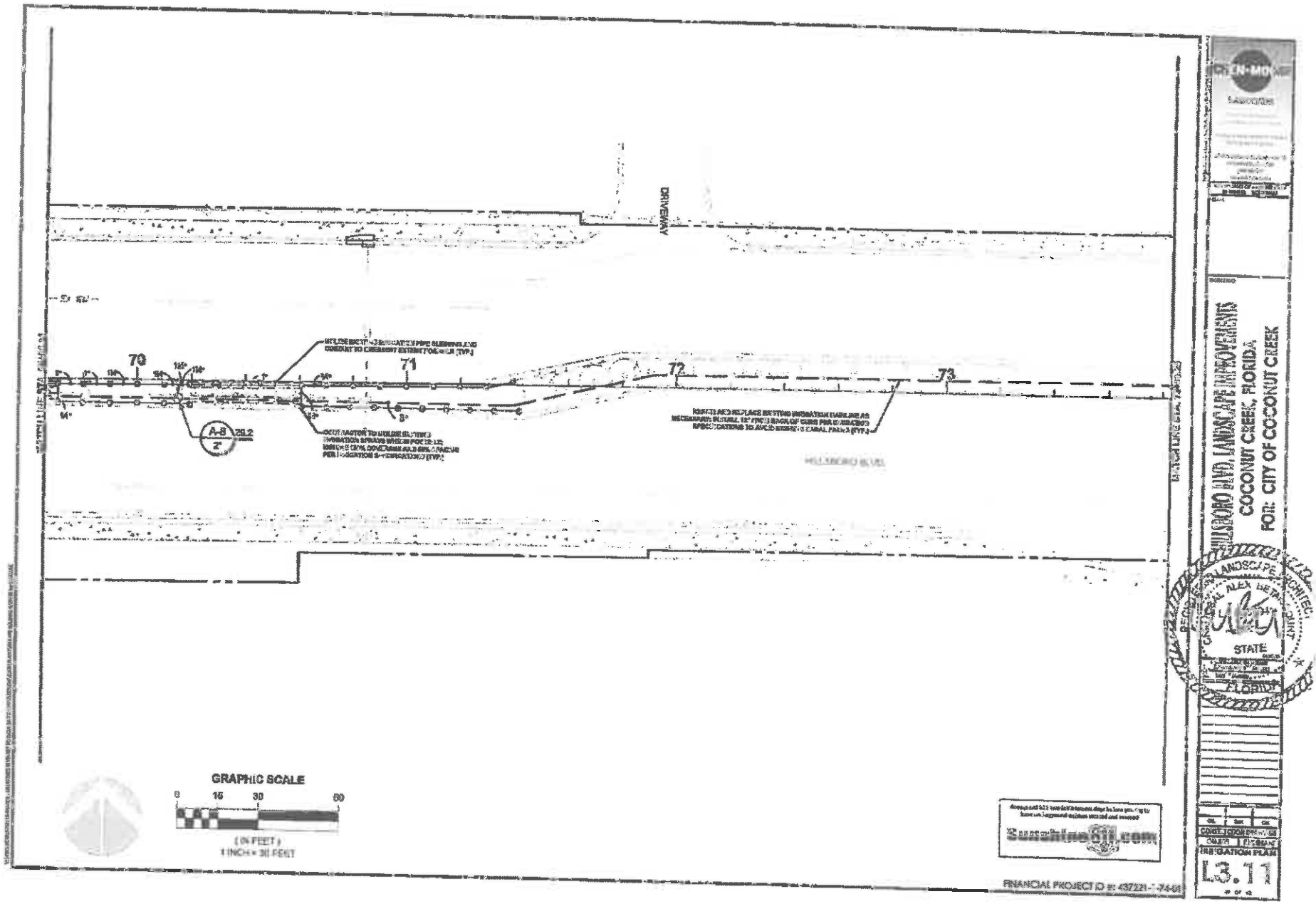
ALEX BERGO
STATE OF FLORIDA

DESIGNED
DRAWN
CHECKED

IRRIGATION PLAN

L3.10

FINANCIAL PROJECT ID #: 437221-1-74-01



GREEN-MOSE

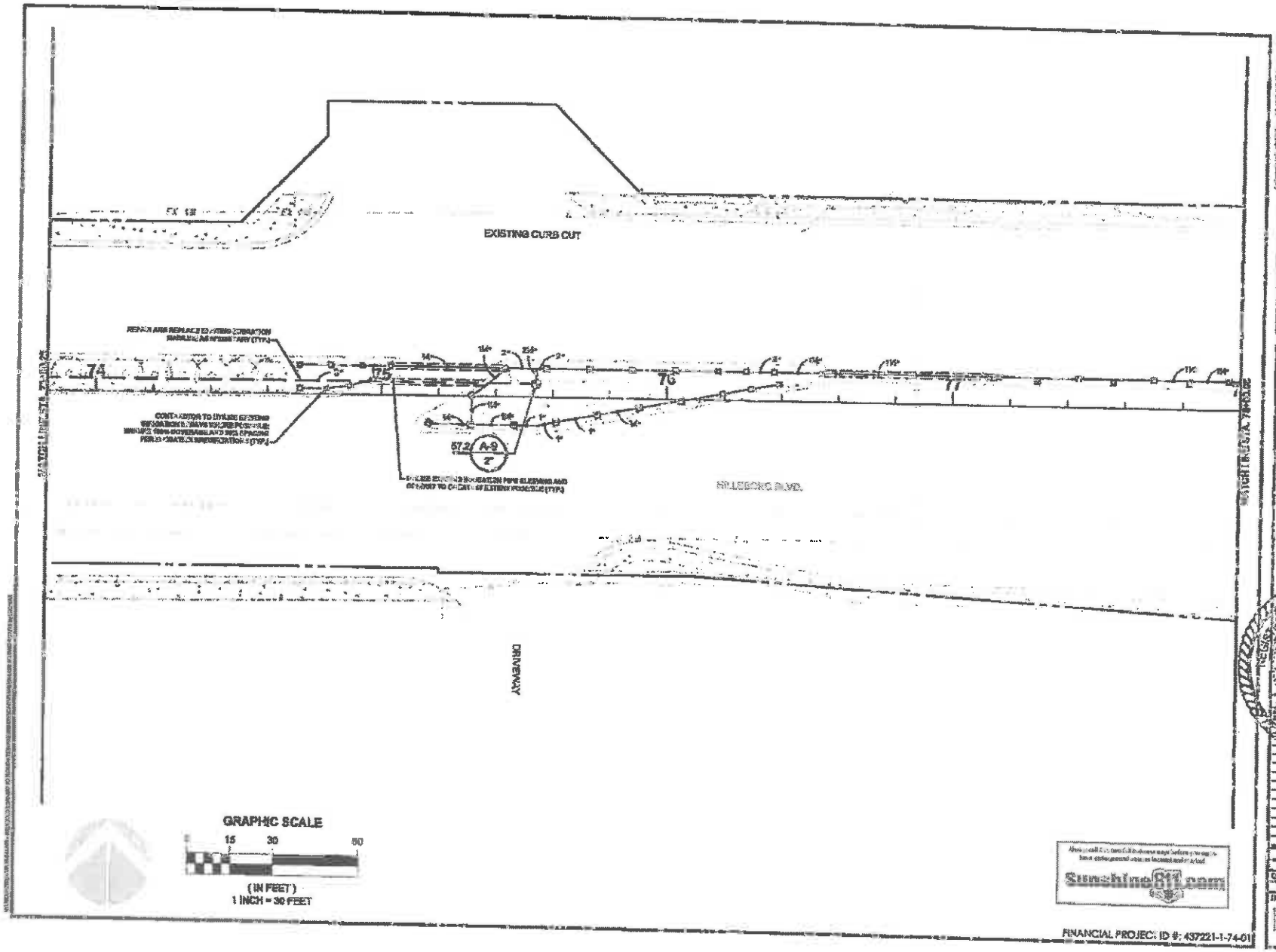
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

ALEX BERMUDEZ
STATE
FLORIDA

IRRIGATION PLAN

L3.1

FINANCIAL PROJECT ID #: 437221-1-74-01

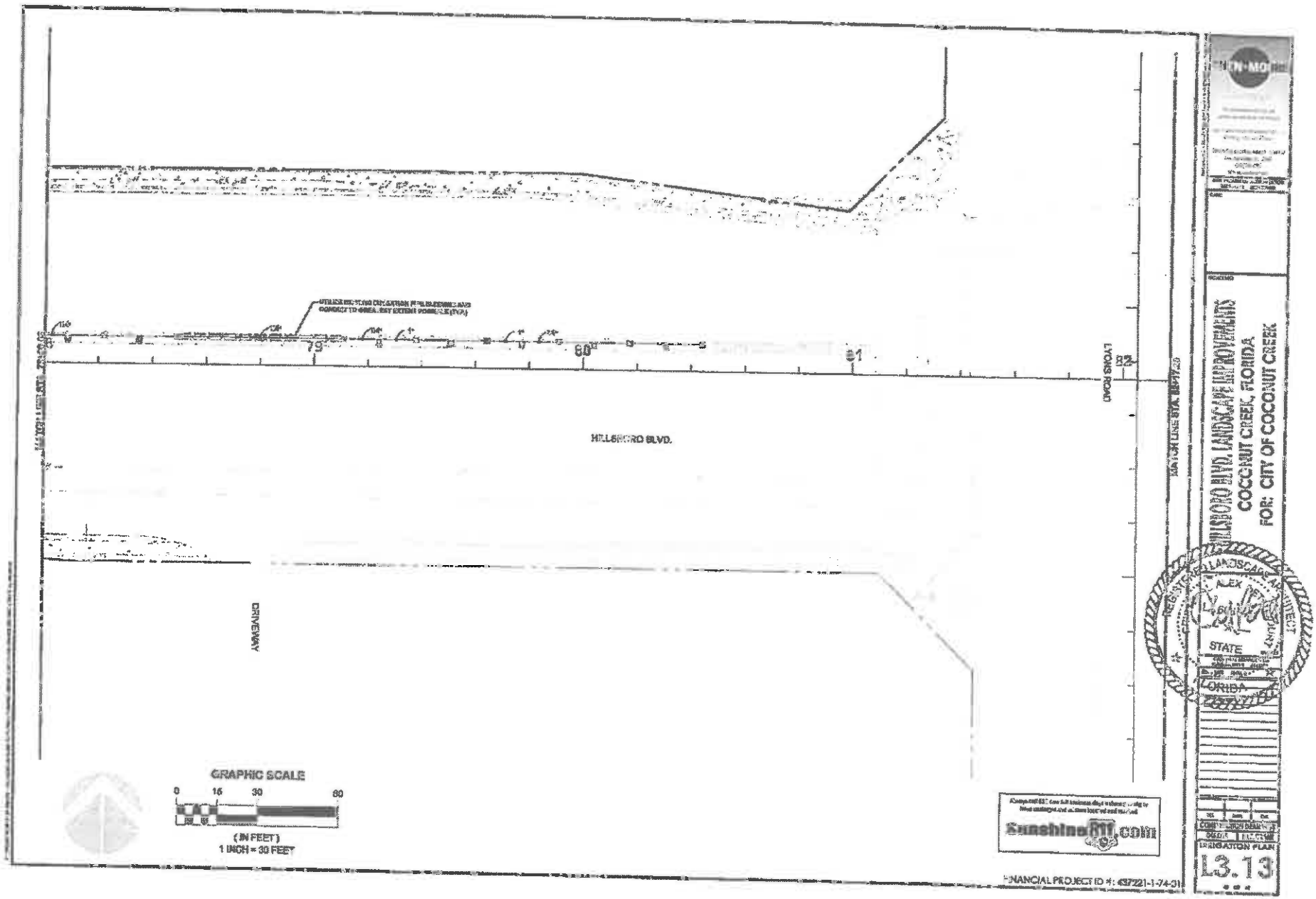


HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

IRRIGATION PLAN

L3.12

FINANCIAL PROJECT ID #: 437221-1-74-01


HILLSBORO BLVD.
LYONS ROAD
DRIVEWAY
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
Sunshine811.com
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
STATE
FLORIDA
IRRIGATION PLAN
L3.13

MILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
L3.14
PARKING LOT INGRESS/EGRESS
DRIVEWAY
MILLSBORO BLVD.
LYONS ROAD
86
85
84
83
GRAPHIC SCALE
(IN FEET)
1 INCH = 30 FEET

LANDSCAPE ARCHITECT
STATE OF
REGISTERED
DRIVEWAY
GRAPHIC SCALE
0
15
30
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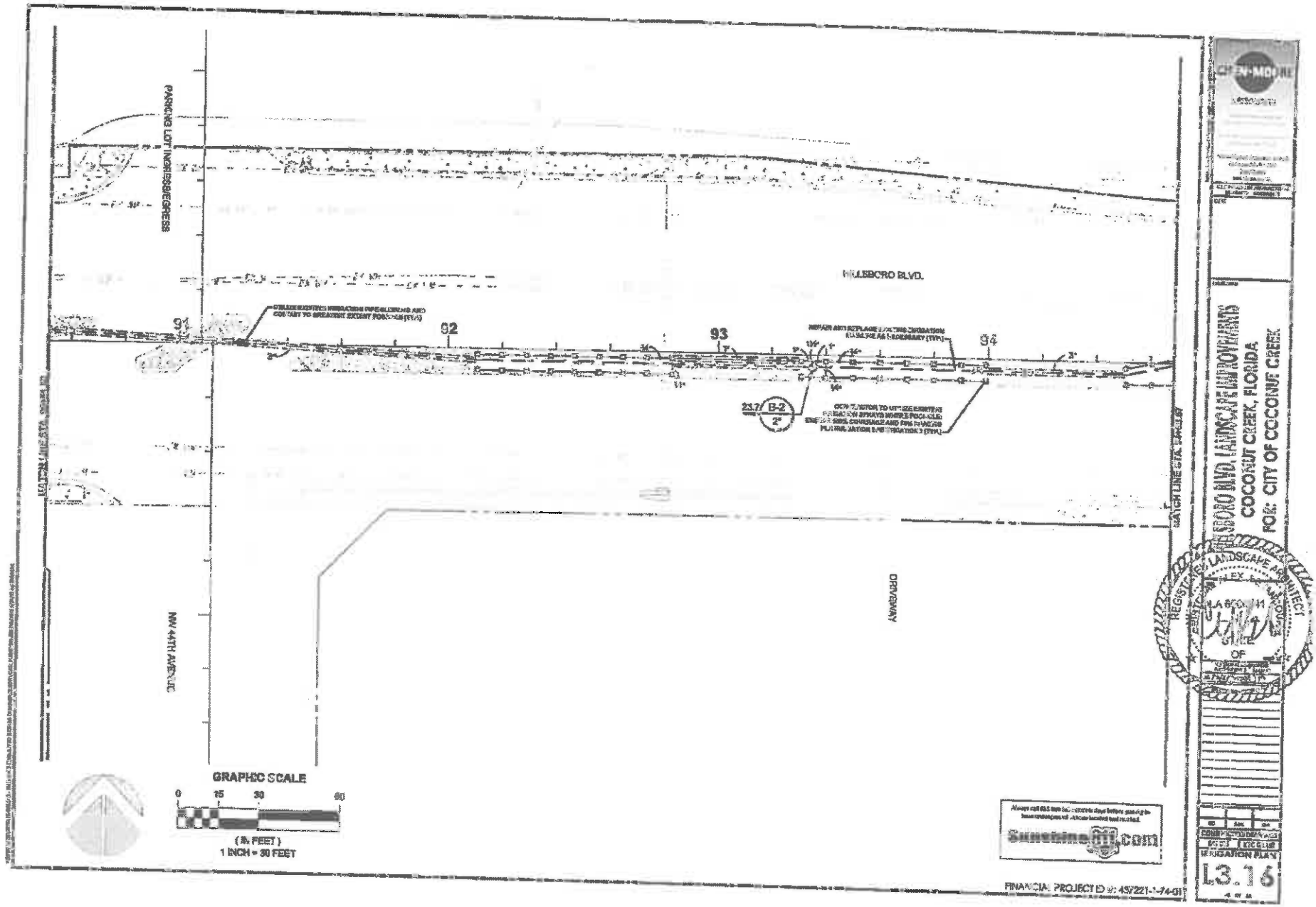
(IN FEET)
1 INCH = 30 FEET
Sunshine811.com
FINANCIAL PROJECT ID 71-437221-1-74-01
L3.15


HILLSBORO BLVD.
91
92
93
94
PARKING LOT INGRESS/EGRESS
NW 44TH AVENUE
GRAPHIC SCALE
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(IN FEET)
1 INCH = 30 FEET
FINANCIAL PROJECT ID #: 452221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
L3.16

HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

L3.17

FINANCIAL PROJECT ID #: 437221-1-74-01

DRIVEWAY

PARKING LOT INGRESS/EGRESS

PARKING LOT EGRESS

GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET

HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

L3.18

SUNSHINE 811

SUNRISE BLVD.

HILLSBORO BLVD.

SUNTON COURT

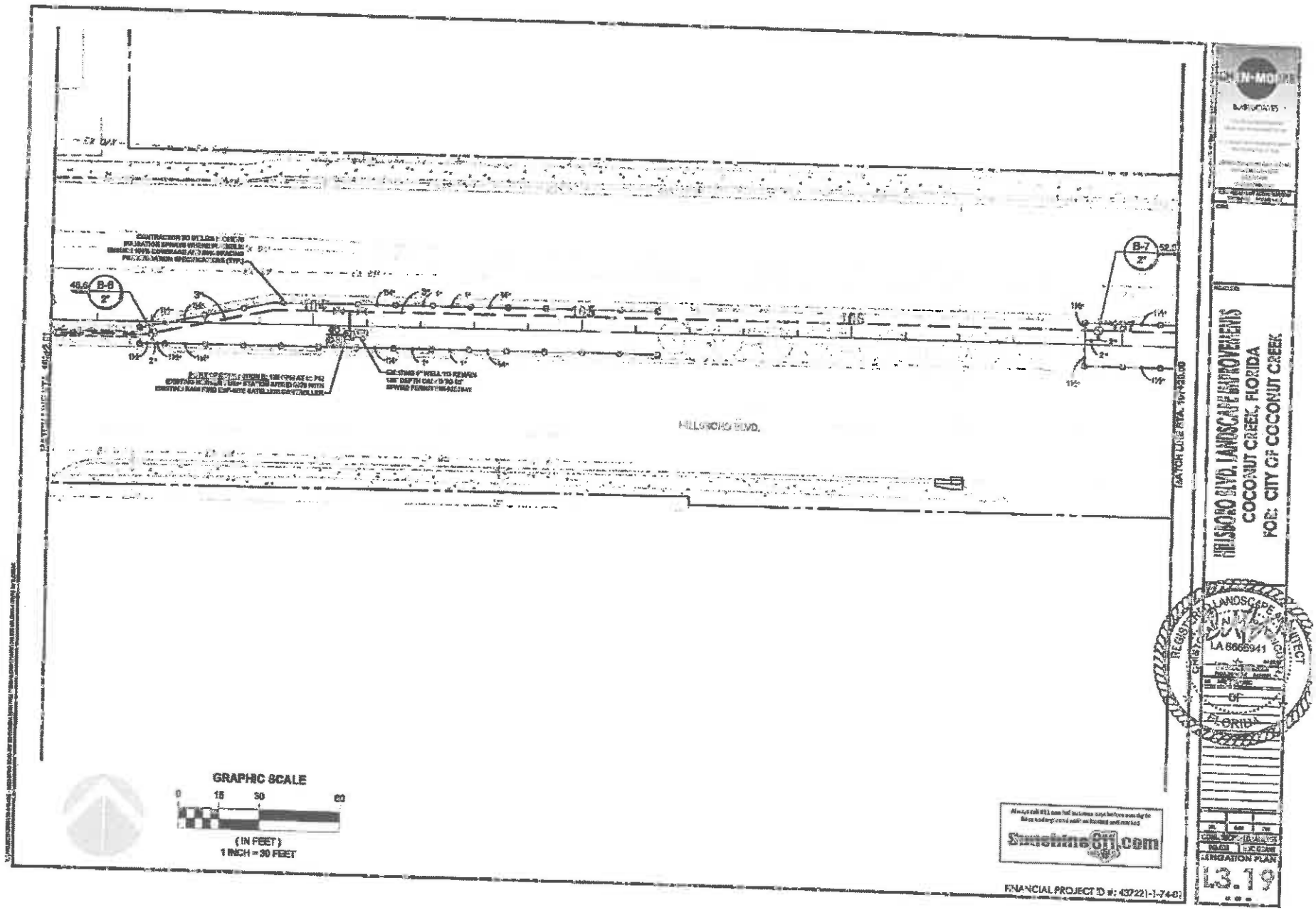
DRIVEWAY

102

101

100

GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET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GRAPHIC SCALE
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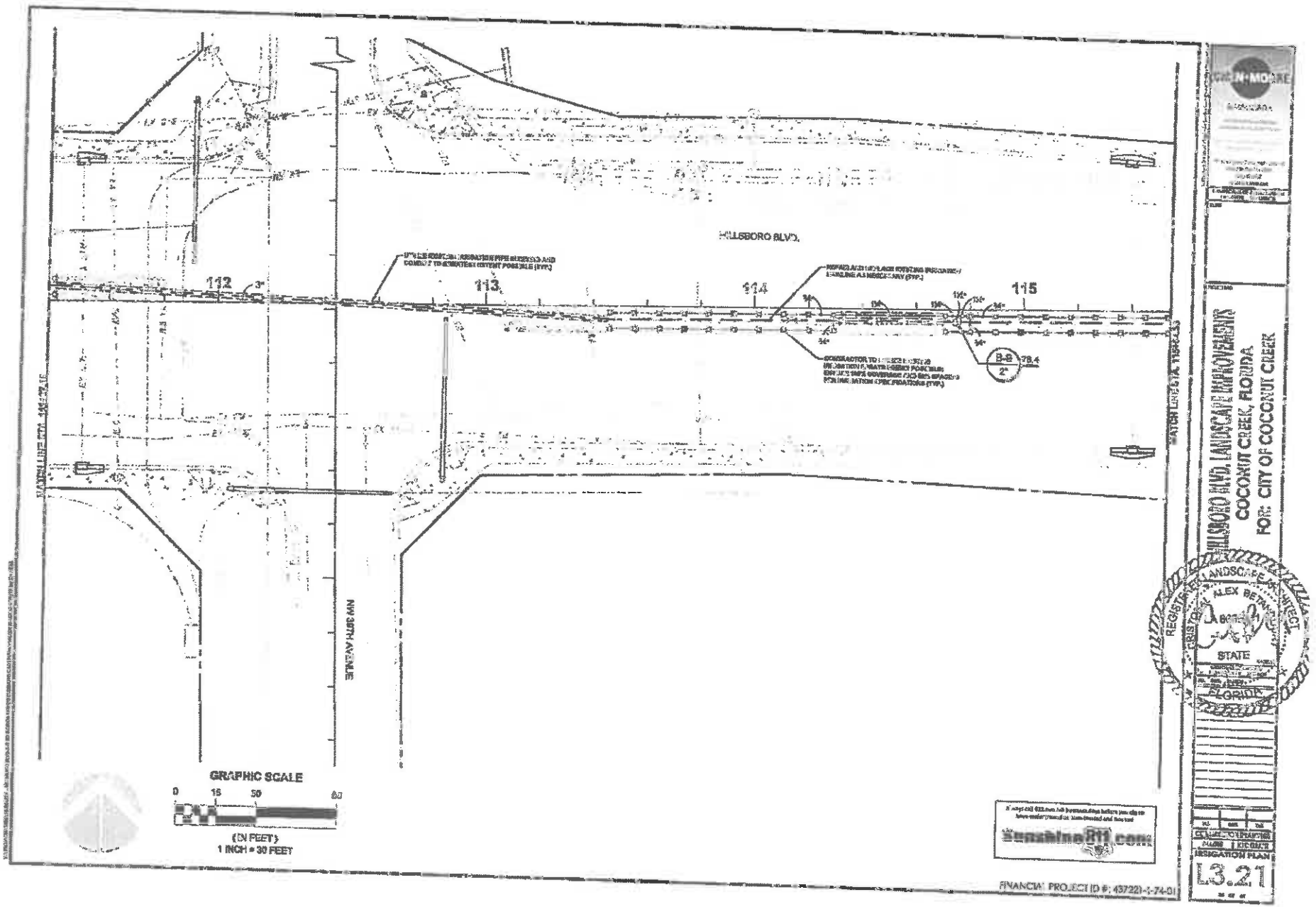
(IN FEET)
1 INCH = 30 FEET
Sunshine811.com
LANDSCAPE ARCHITECT
LA 6666941
STATE OF FLORIDA
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
IRRIGATION PLAN
L3.19
FINANCIAL PROJECT ID #: 43722[1-1-74-01

MILLSBORO BLVD.
GRAPHIC SCALE
0
15
30
60
(IN FEET)
1 INCH = 30 FEET
STATE
FOR: CITY OF COCONUT CREEK
COCONUT CREEK, FLORIDA
MILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
L3.20


HILLSBORO BLVD.
NW 39TH AVENUE
112
113
114
115
B-2
78.4
GRAPHIC SCALE
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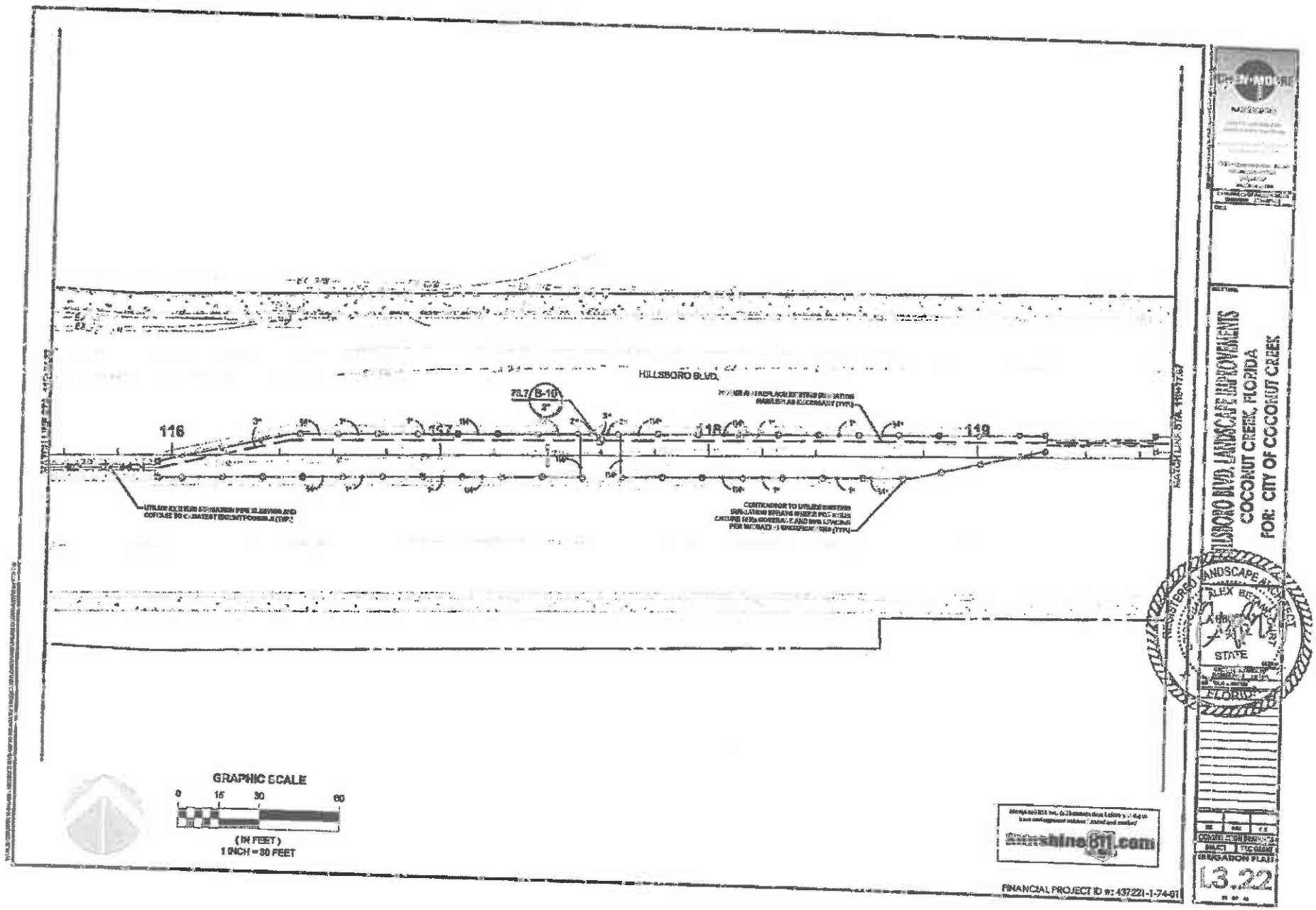
(IN FEET)
1 INCH = 30 FEET
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
REGISTERED LANDSCAPE ARCHITECT
ALEX BETANCUR
STATE
FLORIDA
IRRIGATION PLAN
L3.21


HILLSBORO BLVD.
116
117
118
119
GRAPHIC SCALE
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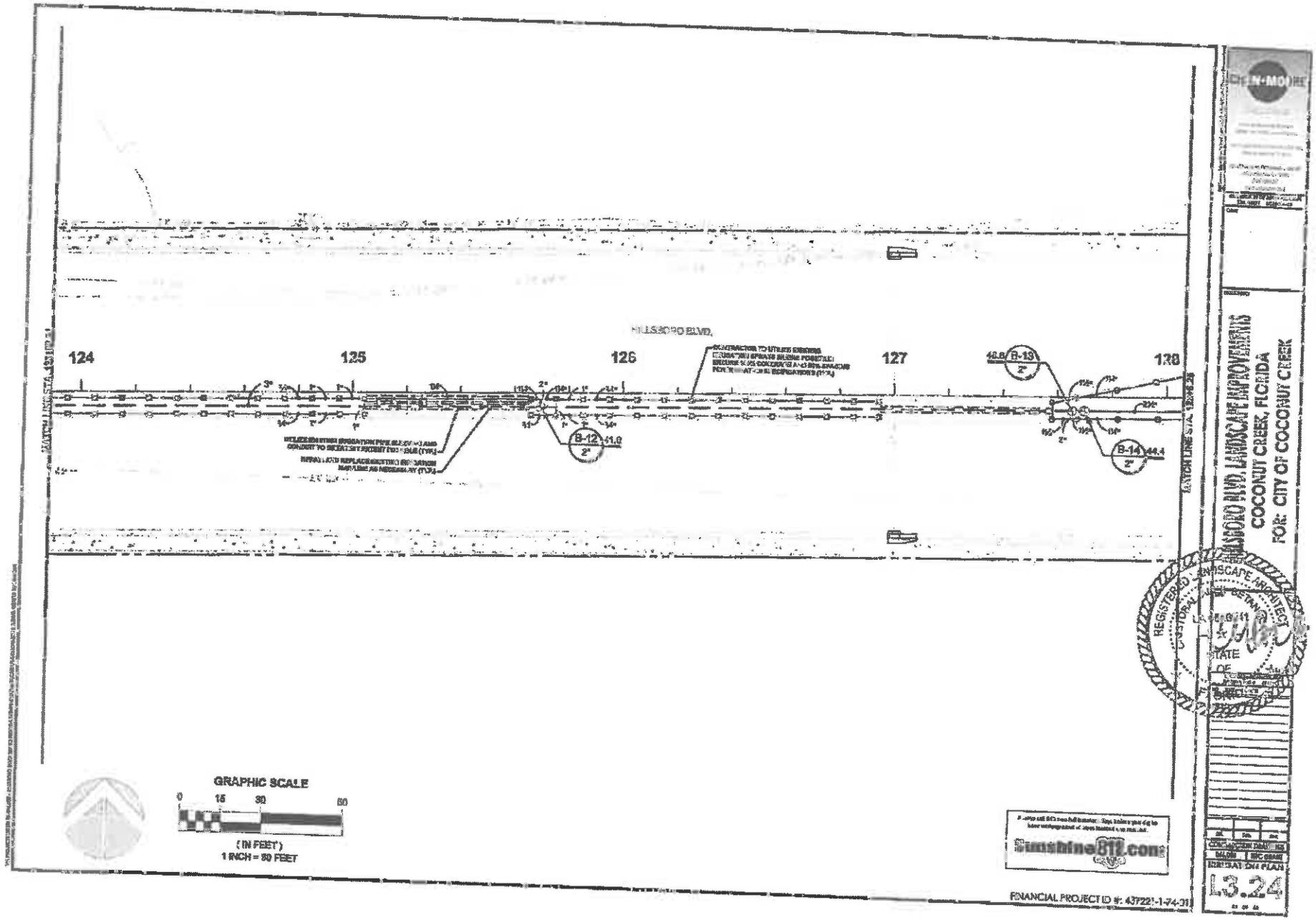
(IN FEET)
1 INCH = 30 FEET
FINANCIAL PROJECT ID #: 437221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
L3.22

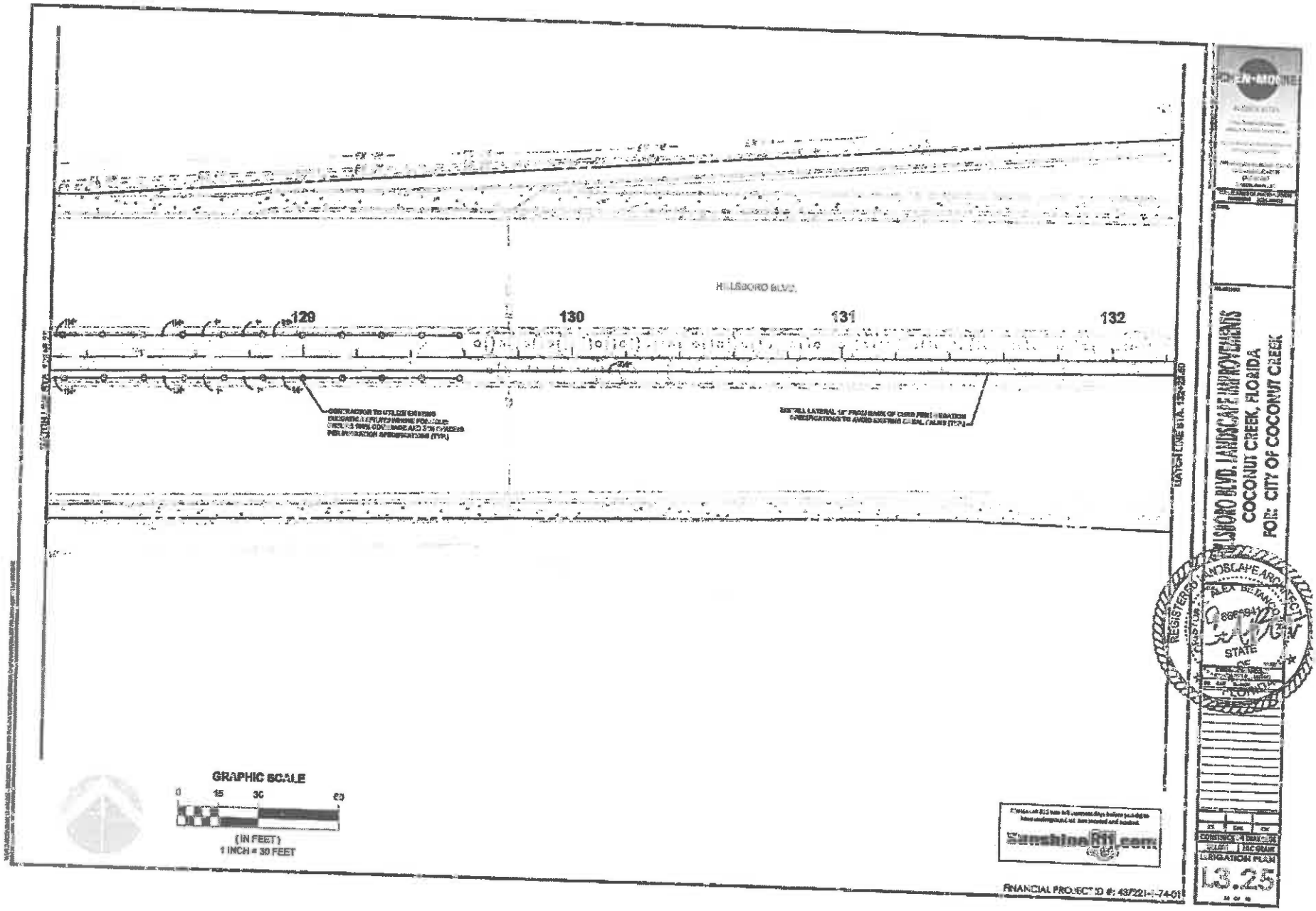
L3.23
PINEVIEW LAKES
GRAPHIC SCALE
1 INCH = 30 FEET

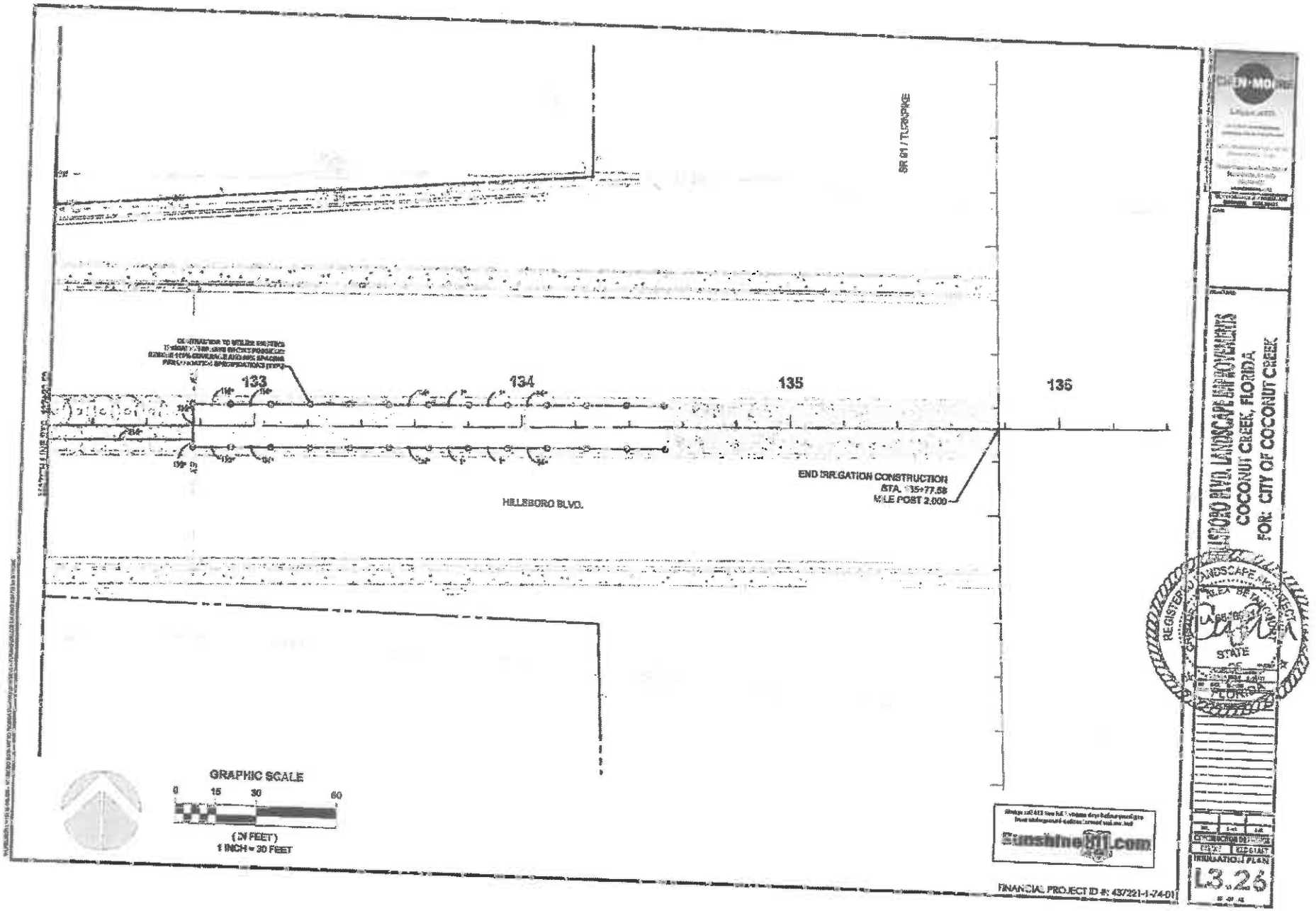


HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

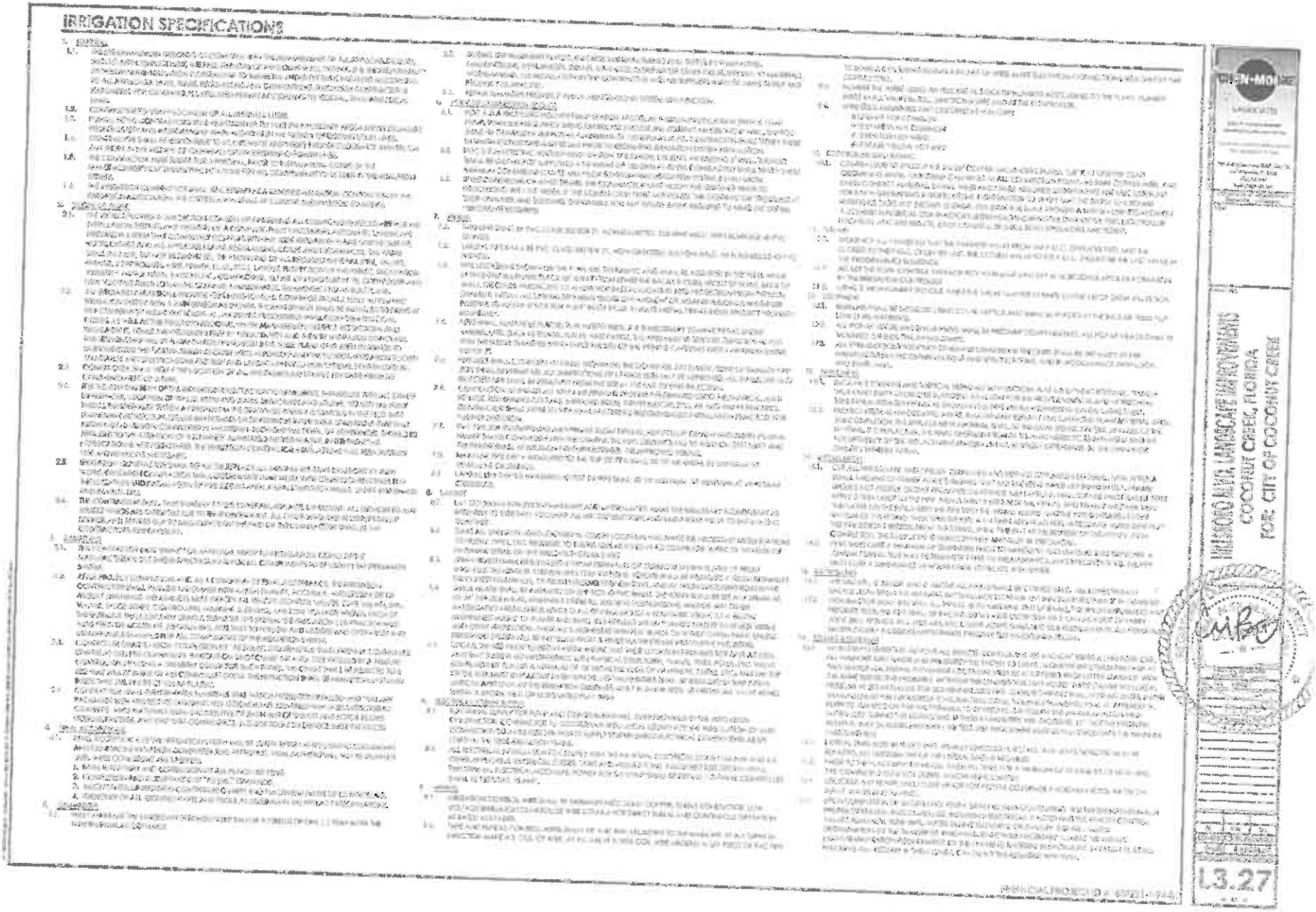
L3.24

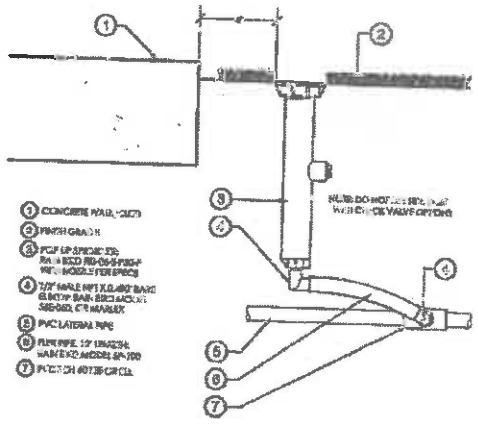
FINANCIAL PROJECT ID #: 437221-1-74-01


HILLSBORO BLVD.
129
130
131
132
GRAPHIC SCALE
0
15
30
60
(IN FEET)
1 INCH = 30 FEET
Sunshine811.com
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
REGISTERED
LANDSCAPE ARCHITECT
ALEX BETANCOURT
STATE
OF
FLORIDA
L3.25
FINANCIAL PROJECT ID #: 43722[illegible]-74-01

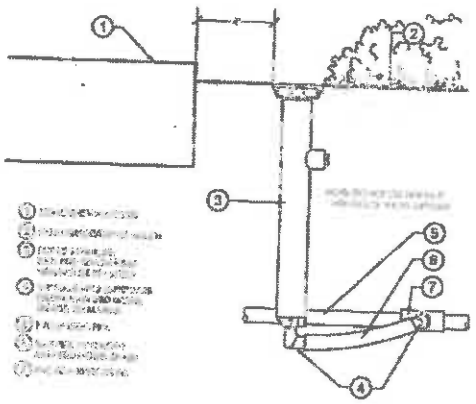

SR 811 / TURNPIKE
133
134
135
136
HILLSBORO BLVD.
END IRRIGATION CONSTRUCTION
STA. 135+77.58
MILE POST 2.000
GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET
Sunshine811.com
FINANCIAL PROJECT ID #: 437221-1-74-01
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK
REGISTERED LANDSCAPE ARCHITECT
ALEX BETANCOURT
STATE OF FLORIDA
IRRIGATION PLAN
L3.26

IRRIGATION SPECIFICATIONS

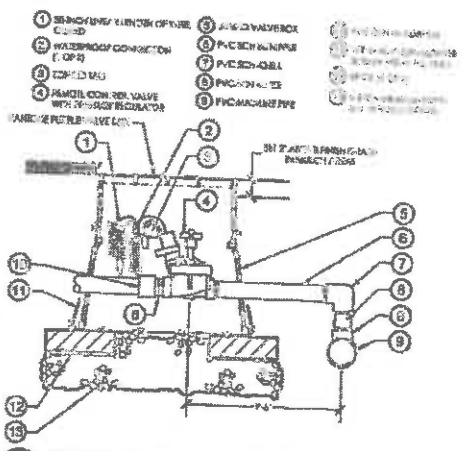




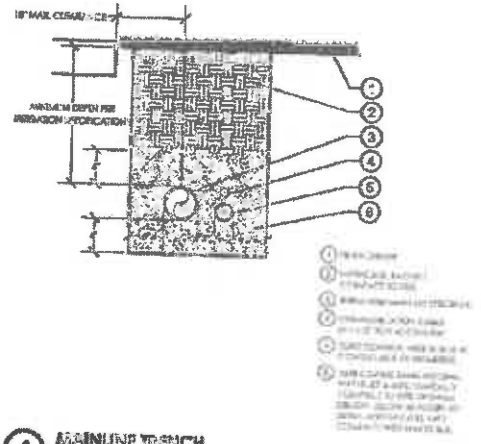
1 6" POP-UP SPRAY



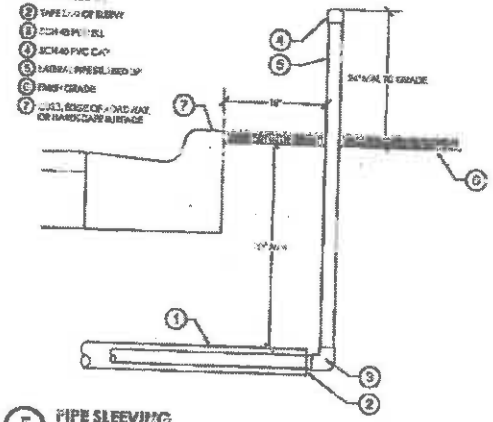
2 12" POP-UP SPRAY



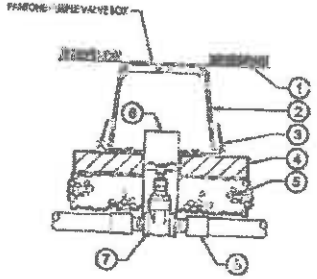
3 PRESSURE REGULATING REMOTE CONTROL VALVE



4 MAINLINE TRENCH



5 PIPE SLEEVING



6 ISOLATION VALVE

TYLIN-MORSE
LANDSCAPE ARCHITECTS

COCONUT CREEK PKWY. & LYONS RD. LANDSCAPE IMPROVEMENTS
FOR: CITY OF COCONUT CREEK

REGISTERED LANDSCAPE ARCHITECT
STATE OF FLORIDA

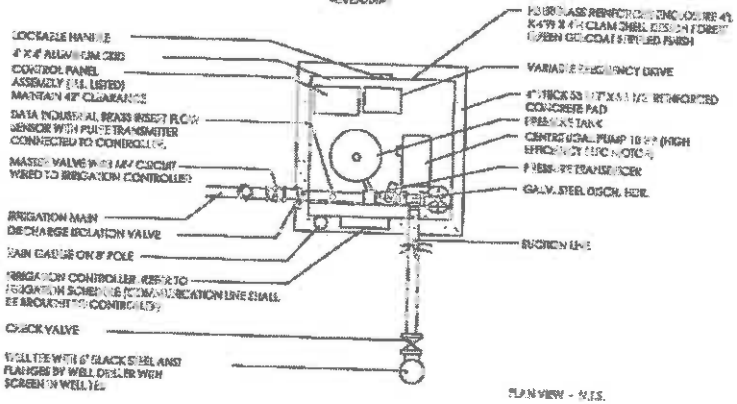
L3.28

NOTE: SUCTION PIPE SHALL BE SCHED 40 GALVANIZED STEEL WITH GALVANIZED ROLL GROOVE FITTINGS FROM THE PUMP TO THE WELL TEE. CHECK VALVES 3" AND LARGER SHALL BE SWING TYPE. 2" AND SMALLER SHALL BE POPPET STYLE.

PROVIDE MINIMUM OF 4" CLEARANCE ON ALL SIDES OF PUMP STATION
* OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"

X VARIABLE FREQUENCY DRIVE
X IRRIGATION CONTROLLER RAIN AND STORM WITH BUILT-IN CCU 24 STATIONS WITH FLOW SENSOR AND RAIN GAUGE ON 8' POLE.
X PRESSURE TANK FOR PRESSURE DEMAND SYSTEMS
— HOOVER FLOW GUARD

SAFETY FEATURES
PRESSURE DEMAND
TRANSIENT SURGE
LOSS OF PRIME
OVERLOAD



PLAN VIEW - N.T.S.

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

PUMP PERFORMANCE:
[illegible]

HOOVER PUMPING MODEL FOR [illegible]
Pompano Beach, Florida Tel: 954-971-7750

CITY OF COCONUT CREEK HILLSBORO BLVD WEST REPLACEMENT CENTRIFUGAL PUMP SYSTEM DETAIL

PUMP IS ENCLOSED IN [illegible] WITH SUCTION PRESSURE DEMAND VARIABLE FREQUENCY DRIVEN HOOVER SYSTEM

FOR PERMITTING ONLY

FINANCIAL PROJECT ID #: 43723[illegible]-1-74-01

GREEN-MOORE

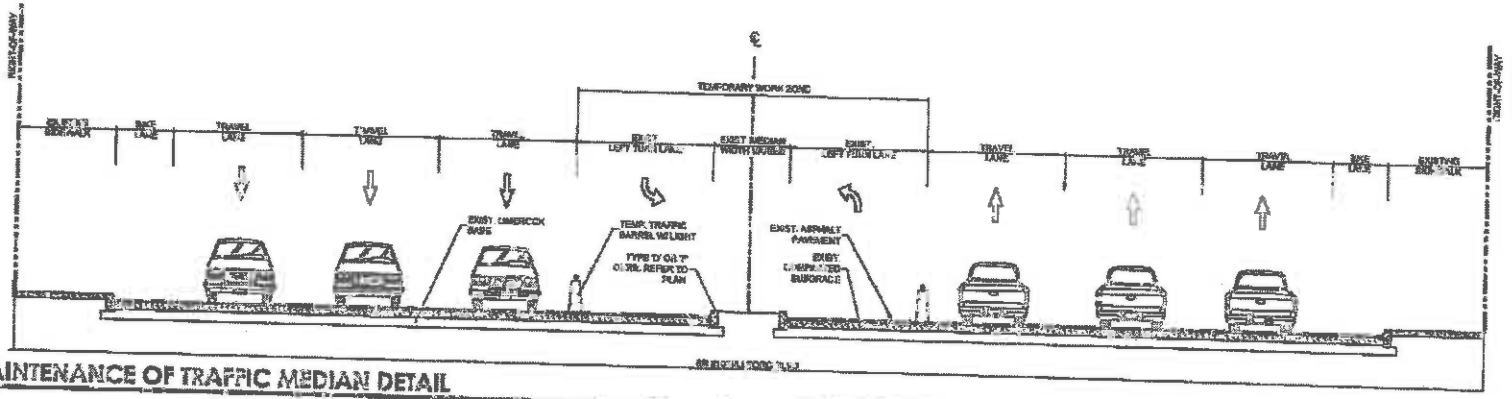
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

LANDSCAPE ARCHITECT
REGISTERED
STATE
OF

L3.29

MAINTENANCE OF TRAFFIC NOTES

1. MAINTENANCE OF TRAFFIC PLANS ARE A GUIDE ONLY. CONTRACTOR SHALL PROVIDE MOT PLANS FOR FINAL APPROVAL.
2. ADVANCE WARNING SIGNS FOR ON SITE DETOUR SHALL BE PLACED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER.
3. EXISTING TRAFFIC CONTROL DEVICES ARE SHOWN ON THE MOT PLANS AS THEY EXIST. THE CONTRACTOR SHALL VERIFY THE INFORMATION AND CONFIRM WITH THE ENGINEER PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL PROTECT ALL EXISTING TRAFFIC SIGNAL INSTALLATION SYSTEMS (PUBLIC LOCATED IN THE RIGHT-OF-WAY). CONTRACTOR IS TO COORDINATE WITH THE CITY OF COCONUT CREEK AND LANDSCAPE ARCHITECT IF ANY CONFLICTS ARE NOTED PRIOR TO CONSTRUCTION.
6. ALL DISTURBED AREAS SHALL BE RESODDED TO ORIGINAL CONDITIONS PRIOR TO CONSTRUCTION.
7. ANY EXISTING SIGNS DAMAGED BY CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR IN KIND.
8. FLORIDA DEPARTMENT OF TRANSPORTATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (FDOT MUTCD) AND ALL APPLICABLE SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION AS AMENDED BY THE CONTRACT DOCUMENTS AND THE CONTRACT SPECIFICATIONS SHALL BE FOLLOWED.

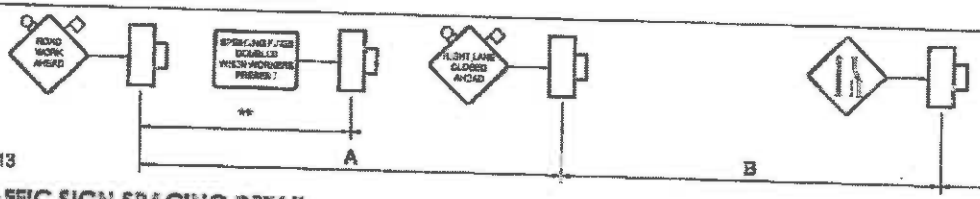


MAINTENANCE OF TRAFFIC MEDIAN DETAIL

N.T.S.

NOTES:
1. ADVANCE WARNING SIGNS TO BE PLACED PER FDOT INDEX 613 AND AS DIRECTED BY THE ENGINEER.
2. TYPE III BARRICADES WITH FLASHING LIGHTS SHALL BE PLACED AT THE BEGINNING AND END OF THE WORK ZONE.
3. TYPE III BARRICADES SHALL BE PLACED ACROSS THE ENTIRE ROADWAY AT THE END OF THE WORK ZONE.

SR810 (HILLSBORO BLVD.)



**SIGN SPACING PER FDOT INDEX 613

TYPICAL MAINTENANCE OF TRAFFIC SIGN SPACING DETAIL

N.T.S.

TYPICAL CROSS STREET

SARAH LORRAINE MAYER
LICENSE
No 70342
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

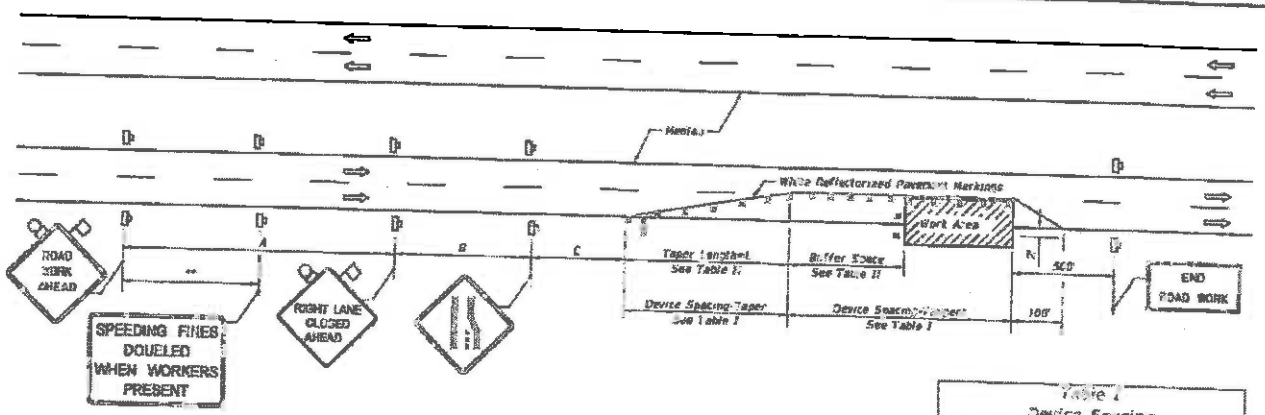
FINANCIAL PROJECT ID #: 437221-1-74-01

HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

MOT EXHIBIT

MOT NOTES & DETAILS

L4.00



DISTANCE BETWEEN SIGNS			
Speed	Spacing (ft.)		
	A	B	C
40 mph or less	200	200	200
45 mph	350	350	350
50 mph	500	500	500
*55 mph or greater	2640	1640	1000

* The ROAD WORK AHEAD sign may be used as an alternate to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED AHEAD sign. Both signs may be used as an alternate to the RIGHT LANE CLOSED AHEAD sign.

** 500' should not exceed 1000' unless it is necessary because more distance is needed.

Table I
Device Spacing

Speed (mph)	Maximum Spacing of Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Signs on Sign Stands or Drums	
	Taper	Tangent	Taper	Tangent
20	20	20	20	20
25 or 30	25	50	50	50
35 or 40	35	100	100	100
45 or 50	45	100	150	150
55 or 60	50	100	165	165
65 or 70	55	100	180	330
75 or 80	60	100	195	360

Table II
Buffer Space and Taper Lengths

Speed (mph)	Buffer Space (ft.)	Taper Length of Lane Closure (ft.)	
		12' Lane Width	Reduced Width
20	115	80	55
25	155	125	85
30	200	180	120
35	250	245	165
40	305	320	215
45	360	540	360
50	425	600	400
55	495	660	440
60	570	720	480
65	645	780	520
70	730	840	560
75	820	900	600
80	910	960	640

GENERAL NOTES

1. Work operations shall not begin on the roadway until all traffic control devices are in place.
2. On multilane highways the work on each side of the median shall be separated by a buffer space.
3. When work is performed on the median side of divided highways, the channelizing devices shall be placed on the left side of the left most through lane in the direction of traffic flow.

   The same applies to one-way highways with the following exceptions:
   - Work shall be confined within the normal lanes.
   - Additional channelizing devices or signs shall be placed along the shoulder approaching the work area and across the shoulder at the work area.

   Where work on protected sidewalk blocks the pedestrian path, an alternate pedestrian route shall be provided. The alternate route's surface shall be firm and stable.
4. Signs and traffic control devices are to be installed in accordance with the Contractor's work sequence details, Index 612, or as shown on plans or approved by the Engineer.
5. The channelizing devices shall be placed on the work side of the edge line or pavement markings.
6. When placed, channelizing devices shall be placed at 40 ft. or less on center. Additional channelizing devices shall be used to close the distance to adjacent channelizing devices to 20 ft. or less on center when the speed limit is 45 mph or greater. See Index No. 612 for additional taper lengths.
7. When a work zone intersects the highway within the TTC zone, additional TTC devices shall be added in accordance with other applicable TTC Indexes.
8. The TTC plan shall not be made when work is being performed on the shoulder (width of 4 ft. or more) of a two-lane highway. See Index No. 611.
9. For additional TTC requirements and applications, refer to Index No. 102.

DURATION NOTES

1. Temporary work operations may be classified into the following categories based on duration of occupancy at a fixed location:
   - Long-term stationary: more than 3 days
   - Intermediate-term stationary: between 1 hour and 3 days
   - Short-term stationary: between 15 minutes and 1 hour
   - Short duration: less than 15 minutes, but not classified as mobile operations
   - Mobile operations: work that moves intermittently or continuously
2. The work operations are to be evaluated to determine the duration of occupancy at a location. Each location may be classified into only one of the categories listed above.
3. Speed limit is the sign or legal speed limit established for the roadway.
4. Lane type classification is to be made by considering the work area and the adjacent lanes that are open to traffic.
5. Factors and conditions of the roadway, but does not include:
   - Weather conditions
   - Time of day
6. The above table is provided as a guide in making decisions and is not intended to establish specific requirements. Other factors, including engineering judgment, may be considered in determining the duration of occupancy and the appropriate devices to be used.

SYMBOLS

- Work Area
- Sign (See Table of Signs)
- Channelizing Devices (See Index No. 611)
- Work Zone Sign
- Direction of Flow of the Road

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OFF OF THE OUTSIDE EDGE OF THE TRAVELWAY

LAST REVISION	DESCRIPTION:	2015 DESIGN STANDARDS	MULTILANE, WORK WITHIN TRAVEL WAY MEDIAN OR OUTSIDE LANE	INDEX NO. 613	SHEET NO. 1 of 2
07/01/09					

FDOT INDEX 613

STATE OF FLORIDA PROFESSIONAL ENGINEER

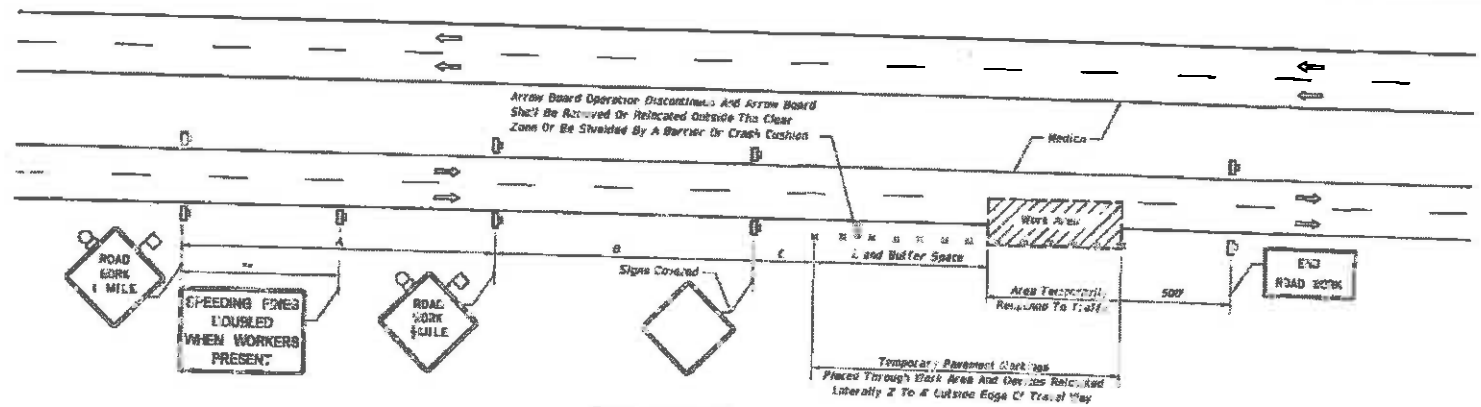
N.T.S.

FINANCIAL PROJECT ID: 437221-1-74-01

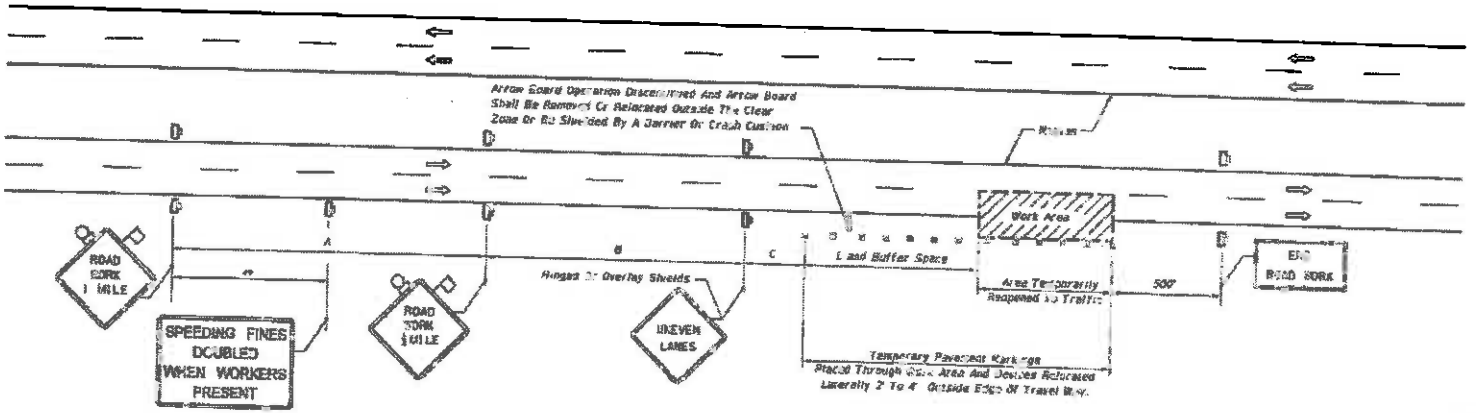
HILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

FDOT INDEX 613

L4.01



EVEN PAVEMENT



UNEVEN PAVEMENT

INTERMITTENT WORK STOPPAGE - LANE REOPENED TO TRAFFIC

SARAH LORRAINE MANN LICENSE No 70961 STATE OF FLORIDA PROFESSIONAL ENGINEER

LAST REVISION 07/01/05	REVISION	DESCRIPTION:	FDOT 2015 DESIGN STANDARDS	MULTILANE, WORK WITHIN TRAVEL WAY MEDIAN OR OUTSIDE LANE	613	1 of 2

FDOT INDEX 613

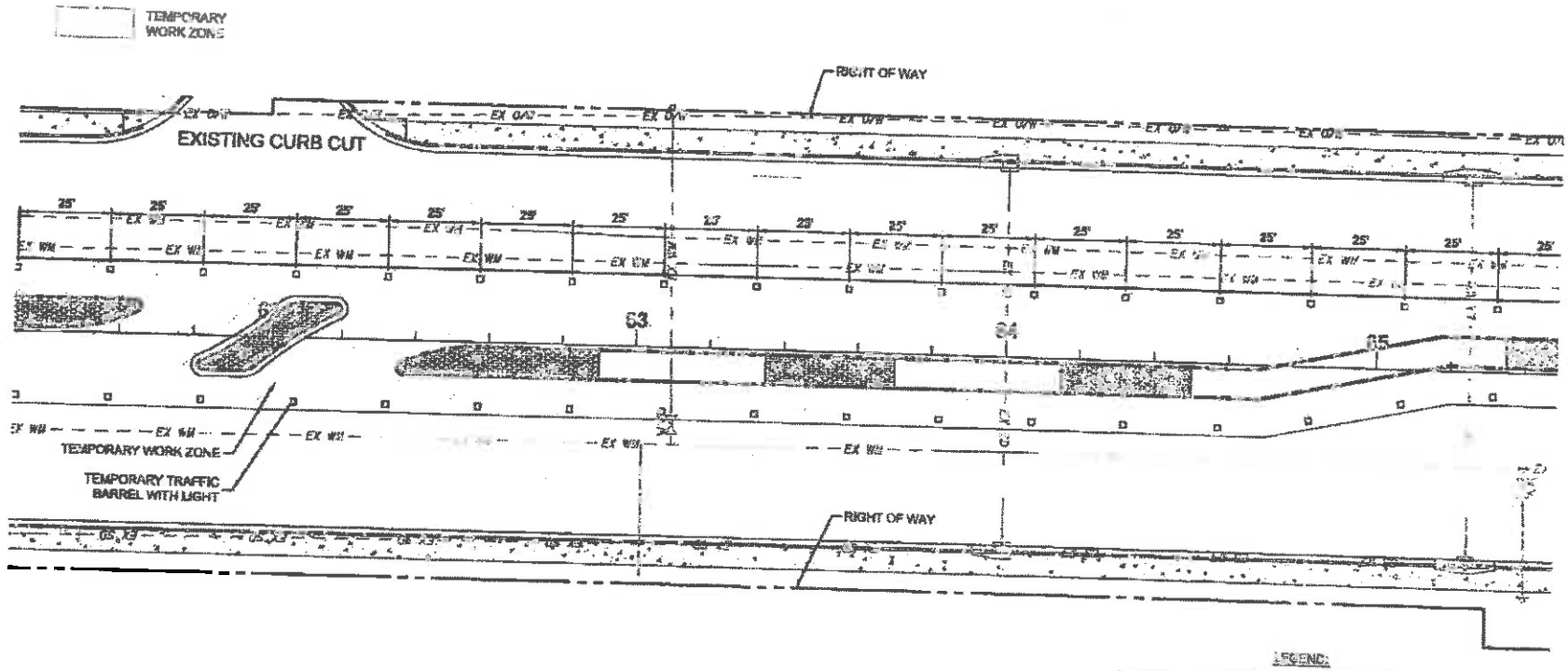
N.T.S.

FINANCIAL PROJECT ID #: 437221-1-74-01

MILLSBORO BLVD. LANDSCAPE IMPROVEMENTS
COCONUT CREEK, FLORIDA
FOR: CITY OF COCONUT CREEK

FDOT EXHIBIT
SHEET | FIGURE
FDOT INDEX 613

L4.02



LEGEND:

- RIGHT-OF-WAY LINE
- EXIST. EDGE OF PAVEMENT
- EX. STORMWATER PIPE
- EX. WATER MAIN
- EX. OVERHEAD L

GRAPHIC SCALE

0 15 30 60

(IN FEET)

1 INCH = 30 FEET

SARAH LORRAINE RATH
LICENSE
No 70942
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Sunshine811.com

FINANCIAL PROJECT ID #: 437221-1-74-01

MISSOURI BLVD. LANDSCAPE IMPROVEMENTS

COCONUT CREEK, FLORIDA

FOR: CITY OF COCONUT CREEK

MOT EXHIBIT

TYP. MOT PLAN

L4.03

SECTION No.(s):	86120
S.R. No.(s):	810
FM No:	437221-1-74-01
COUNTY:	BROWARD

EXHIBIT C

MAINTENANCE PLAN FOR LANDSCAPE IMPROVEMENTS

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

Please see attached

MAINTENANCE PLAN
Landscape Improvements

Project State Road No(s):	**State Road 810 (Hillsboro Boulevard) from State Road 7 (US 441) (M.P.0.00) to State Road 91 (Florida Turnpike) (M.P. 2.00)**
FM No(s):	**437221-1-74-01**
Maintaining Agency:	**City of Coconut Creek**
RLA of Record:	**Cristobal Betancourt**
Date:	**March 23, 2015**

I. GENERAL MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS:

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

WATERING REQUIREMENTS

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

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

IRRIGATION SYSTEM

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

INTEGRATED PLANT MANAGEMENT

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

Palms, shrubs, trees and turf areas shall be fertilized in such a manner and frequency to ensure that the plant material remains healthy and vigorously growing. Please be alert to changes in fertilization types per University of Florida, Institute of Food and Agricultural Services (I.F.A.S.) recommendations. Establishment of an integrated pest management program is encouraged to ensure healthy plants, which are free of disease and pests.

MULCHING

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

PRUNING

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

STAKING AND GUYING

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

TURF MOWING:

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

LITTER CONTROL:

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

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

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

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

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

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

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

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

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

VEGETATION MANAGEMENT AT OUTDOOR ADVERTISING (ODA)

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

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

II. SPECIFIC PROJECT SITE MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS

The City of Coconut Creek shall maintain the proposed plant material(s) as noted below:

- Palm tree fronds shall not be trimmed higher than 3 and 9 o'clock.
- Shrubs shall be maintained at a maximum height of 24" and trimmed to preserve their natural growth habit to the greatest extent possible
    - Chrysobalanus icaco 'Horizontalis'/Horizontal Cocoplum
    - Hamelia patens 'Dwarf'/Dwarf Fire Bush
- Shrubs shall be maintained to prevent encroachment onto existing hardscape areas (pavers and curbing).
- Groundcover shall be maintained to prevent encroachment onto existing hardscape areas (pavers and curbing). In addition, where ground cover beds are intermixed, ground cover shall be trimmed to keep plant species segregated by a margin no greater than 12".

REFERENCES

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

Accessible Sidewalk (ADA)
http://www.access-board.gov/guidelines-and-standards/streets-sidewalks

Americans with Disabilities Act (ADA) (ADAAG)
http://www.ada.gov/2010ADAstandards_index.htm

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

Florida Department of Agriculture and Consumer Services, Division of Plant Industry, *Florida Grades and Standards for Nursery Plants*
http://www.freshfromflorida.com/Divisions-Offices/Plant-Industry/Bureaus-and-Services/Bureau-of-Plant-and-Apiary-Inspection/Plant-Inspection#pubs

Florida Department of Community Affairs (DCA), ***Florida Board of Building Codes & Standards, 2010 Florida Building Code, Chapter 11 Florida Accessibility Code for Building Construction Part A***
http://www2.iccsafe.org/states/florida_codes/

Florida Department of Transportation, ***FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 544 Landscape Installation***
http://www.dot.state.fl.us/rddesign/DS/15/IDx/00544.pdf

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 546 Sight Distance at Intersections*
http://www.dot.state.fl.us/rddesign/DS/15/IDx/00546.pdf

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 600 Traffic Control through Work Zones*
http://www.dot.state.fl.us/rddesign/DS/15/IDx/00600.pdf

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 700 Roadside Offsets*
http://www.dot.state.fl.us/rddesign/DS/15/IDx/00700.pdf

Florida Department of Transportation, *FDOT Plans Preparation Manual (PPM) Vol. I Chapter 2.11 Lateral Offset*
Table 2.11.5 Lateral Offset Clearance to Trees

Table 2.11.11 Recoverable Terrain
http://www.dot.state.fl.us/rddesign/PPMManual/2014PPM.shtm

Florida Department of Transportation, *FDOT Standard Specifications for Road and Bridge Construction, Section 580 Landscape Installation*
http://www.dot.state.fl.us/specificationsoffice/Maintenance/Jul14/Files/SS5800000.doc

http://www.dot.state.fl.us/specificationsoffice/Implemented/Workbooks/JulWorkbook2014/Files/SP5800000FA.pdf

Florida Department of Transportation, Landscape Architecture Website
www.MyFloridaBeautiful.com

Florida Department of Transportation, *Maintenance Rating Program Handbook*
http://www.dot.state.fl.us/statemaintenanceoffice/MaintRatingProgram.shtm

Florida Department of Transportation Outdoor Advertising Database
http://www2.dot.state.fl.us/rightofway/

Florida Exotic Pest Plant Council Invasive Plant Lists
http://www.fleppc.org/list/list.htm

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

Florida Power and Light (FPL), *Plant the Right Tree in the Right Place*
http://www.fpl.com/residential/trees/right_tree_right_place.shtml

A Guide to Roadside Vegetation Management
http://www.dot.state.fl.us/statemaintenanceoffice/DOT%20Final%20(3)Turf%20Management%20Guide%20UF.pdf

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

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

UF IFAS: *Selecting Tropical and Subtropical Tree Species for Wind Resistance*
http://edis.ifas.ufl.edu/pdffiles/FR/FR17500.pdf

UF IFAS: *Fertilization of Field-grown and Landscape Palms in Florida*
http://edis.ifas.ufl.edu/ep261

U.S. Department of Transportation, Federal Highway Administration, ***Manual on Uniform Traffic Control Devices***
http://www.mutcd.fhwa.dot.gov

SECTION No.(s):	86120
S.R. No.(s):	810
FM No:	437221-1-74-01
COUNTY:	BROWARD

EXHIBIT D

APPROXIMATE COST FOR LANDSCAPE IMPROVEMENTS

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

Anticipated Terms of a Separate Agreement

I.	FDOT PARTICIPATION: Via Separate Agreement	$100,000.00
	AGENCY PARTICIPATION:	$213,977.00
II.	APPROXIMATE LANDSCAPE IMPROVEMENT COST: Amounts are approximate	$313,977.00

Please see attached

COST ESTIMATE

Florida Highway Beautification Council Grant

City of Coconut Creek, Florida - SR810 / Hillsboro Boulevard

FPID # 437221-1-74-01

Date: 03/20/15

	Item	Description	Qty.	Unit Cost	Total Cost
1.	Silver Bismark Palm	12' - 14' OAH, 18" MAX TRUNK DIA.	17	1,275.00	21,675.00
2.	Solitaire Palm, Single	16'-18' OAH	67	575.00	38,525.00
3.	Southern Live Oak	18' HT, 7' SPRD, 4" CAL.	10	1,200.00	12,000.00
4.	Chrysobalanus Icaco 'Horizontalis'	3 Gal., 18"ht. x 18"spr., 30" o.c.	447	15.00	6,705.00
5.	Dwarf Fire Bush	3 Gal., 18"ht. x 18"spr., 24" o.c.	409	10.00	4,090.00
6.	Perennial Peanut	4" Pots. 3" Ht., 12" o.c.	3,169	3.00	9,507.00
7.	Blue-eyed Grass	1 Gal., 6"ht. x 6"spr., 20" o.c.	1,817	5.00	9,085.00
8.	Juniperus horizontalis 'Bar Harbor'	3 Gal., 14"ht. x 14"spr., 24" o.c.	945	10.00	9,450.00
9.	St. Augustine Sod 'Floritam'	Solid Sod (SF)	694	0.55	381.70
10.	6" Pop-up Spray:	Rain Bird RD-06-S-P30-F	664	28.00	18,592.00
11.	12" Pop-up Spray	Rain Bird RD-12-S-P30-F	362	32.00	11,584.00
12.	Remote Control Valve:	Rain Bird PESB-PRS-D 1-1/2"	23	200.00	4,600.00
13.	Isolation Valve:	Nibco T-113	8	300.00	2,400.00
14.	Controller:	Rain Bird ESP-24SITE-W	1	2,500.00	2,500.00
15.	Controller:	Reconfigure Existing	1	500.00	500.00
16.	Rain Sensor:	Rain Bird RSD-CEx	1	100.00	100.00
17.	Pump Station:	Hoover Pump Station	1	10,000.00	10,000.00
18.	Irrigation Lateral Line	PVC Class 200 SDR 21 ¾"-2½"	12,938	0.50	6,469.00
19.	Irrigation Mainline	PVC Class 200 SDR 21 3"	7,875	7.50	59,062.50
75	Maintenance of Traffic (MOT)	Maintenance of Traffic	1	10,000.00	10,000.00
21.	Clearing & Grubbing	Preparation of existing landscape areas	1	10,000.00	10,000.00
22.	Site Mobilization / General Requirements	5% of Landscape, Irrigation & Misc. Sub-total	1	12,361.31	12,361.31
23	Establishment/Maintenance of New Plants/1 Year Warranty	12% of Landscape, Irrigation & Misc. Sub-total	1	29,667.14	29,667.14
24.	Contingency	10% of Landscape, Irrigation & Misc. Sub-total	1	24,722.62	24,722.62
				Total Cost	$313,977.27

Notes:

1. Unit costs includes the means and methods necessary to complete the work described in the contract documents. This includes, but is not limited to; delivery, labor, backfill, installation, mulch, equipment etc.
2. Items of work within this estimate shall be performed or sub-contracted by City of Coconut Creek
3. The irrigation has designed as a worst case scenario. This line item reflects installation of all new lateral line within the limits of construction. It is anticipated that the existing lateral lines will be utilized to the greatest extent possible, reducing the estimated cost shown.

RESOLUTION NO 2014-60

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF COCONUT CREEK, FLORIDA AUTHORIZING THE CITY MANAGER OR DESIGNEE TO APPLY FOR AND ACCEPT A FLORIDA DEPARTMENT OF TRANSPORTATION HIGHWAY BEAUTIFICATION GRANT, AND ENTER INTO A HIGHWAY BEAUTIFICATION COUNCIL GRANT, LANDSCAPE CONSTRUCTION, AND MAINTENANCE MEMORANDUM OF AGREEMENT WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION; PROVIDING AN EFFECTIVE DATE

WHEREAS, The Florida Department of Transportation (FDOT) Highway Beautification Grant program offers the City an opportunity to apply for grant funding for landscape beautification projects on State roadways; and

WHEREAS, the Highway Beautification Grant requires that the City provide matching funds and enter into a construction and maintenance agreement; and

WHEREAS, Staff is recommending that the City pursue the aforementioned grant for the purpose of providing landscape improvements to the medians along Hillsboro Boulevard within the City's limits; and

WHEREAS, the City currently maintains the aforementioned medians along Hillsboro Boulevard; and

WHEREAS, the City Commission of Coconut Creek believes it is in the best interests of the City to pursue the FDOT Highway Beautification Grant for the purpose of making landscape beautification improvements within the median rights-of-way on Hillsboro Boulevard; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF COCONUT CREEK, FLORIDA:

Section 1: That the City Commission hereby authorizes the City Manager or designee to apply for a Florida Department of Transportation Highway Beautification Grant and if awarded, to accept the grant and enter into a Highway Beautification Grant, Landscape Construction, and Maintenance Memorandum of Agreement between the City of Coconut Creek and the Florida Department of Transportation.

Section 2: That this Resolution shall be in full force and effect immediately upon its adoption.

Adopted this 11th day of September, 2014.

Elisa K. Aronson, Mayor

Attest:

Leslie May, MMC
City Clerk

Aronson	Aye
Tooley	Aye
Sarbone	Aye
Belvedere	Aye
Welch	Aye

SECTION No.(s):	**86100000**
S.R. No.(s):	**7**
FM No:	**444935-1-74-01**
COUNTY:	**BROWARD**

DISTRICT FOUR (4) AMENDMENT NUMBER SIX (6) TO STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION LANDSCAPE INCLUSIVE MEMORANDUM OF AGREEMENT

THIS AMENDMENT Number Six (6) to the Agreement dated May 27, 2009, made and entered into this 21st day of June 20 19 by and between the State of Florida Department of Transportation hereinafter called the DEPARTMENT and the CITY OF COCONUT CREEK, a municipal subdivision of the State of Florida, hereinafter called the AGENCY.

WITHNESSETH

WHEREAS, the parties entered into the Landscape Inclusive Maintenance Memorandum of Agreement dated, May 27, 2009 for the purpose of maintaining the landscape improvements by the AGENCY on various 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; and,

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

1. Pursuant to paragraph 7 of the Landscape Inclusive Maintenance Memorandum of Agreement for State Road 7 (US 441) dated May 27, 2009, the DEPARTMENT will allow the AGENCY to construct additional landscape improvements or to modify an improvement located as indicated in **Exhibit "A"**, State Road 7 (US 441 from Cullum Road (M.P. 21.411) to Eastbound State Road 869 (Sawgrass Expressway) On Ramp (M.P. 22.531). In accordance with the plans attached as **Exhibit "B".**

2. The AGENCY shall agree to maintain the additional landscape improvements in the Agreement described above according to the **Exhibit "C"** Maintenance Plan, attached to this Amendment.

3. The DEPARTMENT and the AGENCY intend to enter into a separate agreement as further referenced in **Exhibit "D"** attached hereto and made a part hereof. The DEPARTMENT shall be invited to assist the AGENCY in final inspections before acceptance of the Project by the AGENCY. The DEPARTMENT must approve the landscape improvements before the Agency's contactor is released.

4. The AGENCY has represented that it has or will enter into an Interlocal Agreement with the City of Coral Springs providing for the design and construction of landscape improvements and sharing costs of maintenance to the medians on State Road 7 (US 441).

5. Pursuant to **Exhibit "A"** of the Landscape Inclusive Maintenance Memorandum of Agreement for State Road 7 (US 441) dated May 27, 2009, the DEPARTMENT and the AGENCY agree to modify the limits of maintenance listed on State Road 7 (US 441 from Cullum Road (M.P. 21.411) to Eastbound State Road 869 (Sawgrass Expressway) On Ramp (M.P. 22.531).

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

LIST OF EXHIBITS

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

In Witness whereof, the parties hereto have executed with this Amendment effective the 21st day June year written and approved.

CITY OF COCONUT CREEK

By: Mary C. Blasi
Chairperson/Mayor/Manager

Attest: Leslie Wallace (SEAL)
Clerk

Legal Review
Date 6/12/18

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

Attest: _____ (SEAL)
Executive Secretary

Legal Review
Office of the General Counsel
Date 6/20/2019

By: Stacy Hey Miller
Transportation Development Director

SECTION No.(s): 86100000
S.R. No.(s): 7
FM No: 444935-1-74-01
COUNTY: BROWARD

EXHIBIT A

LANDSCAPE IMPROVEMENTS

MAINTENANCE BOUNDARIES LIMITS

I. LANDSCAPE PROJECT LIMITS FOR THIS PROJECT:

State Road 7 (US 441) from Cullum Road (M.P. 21.411) to Eastbound State Road 869 (Sawgrass Expressway) On Ramp (M.P. 22.531)

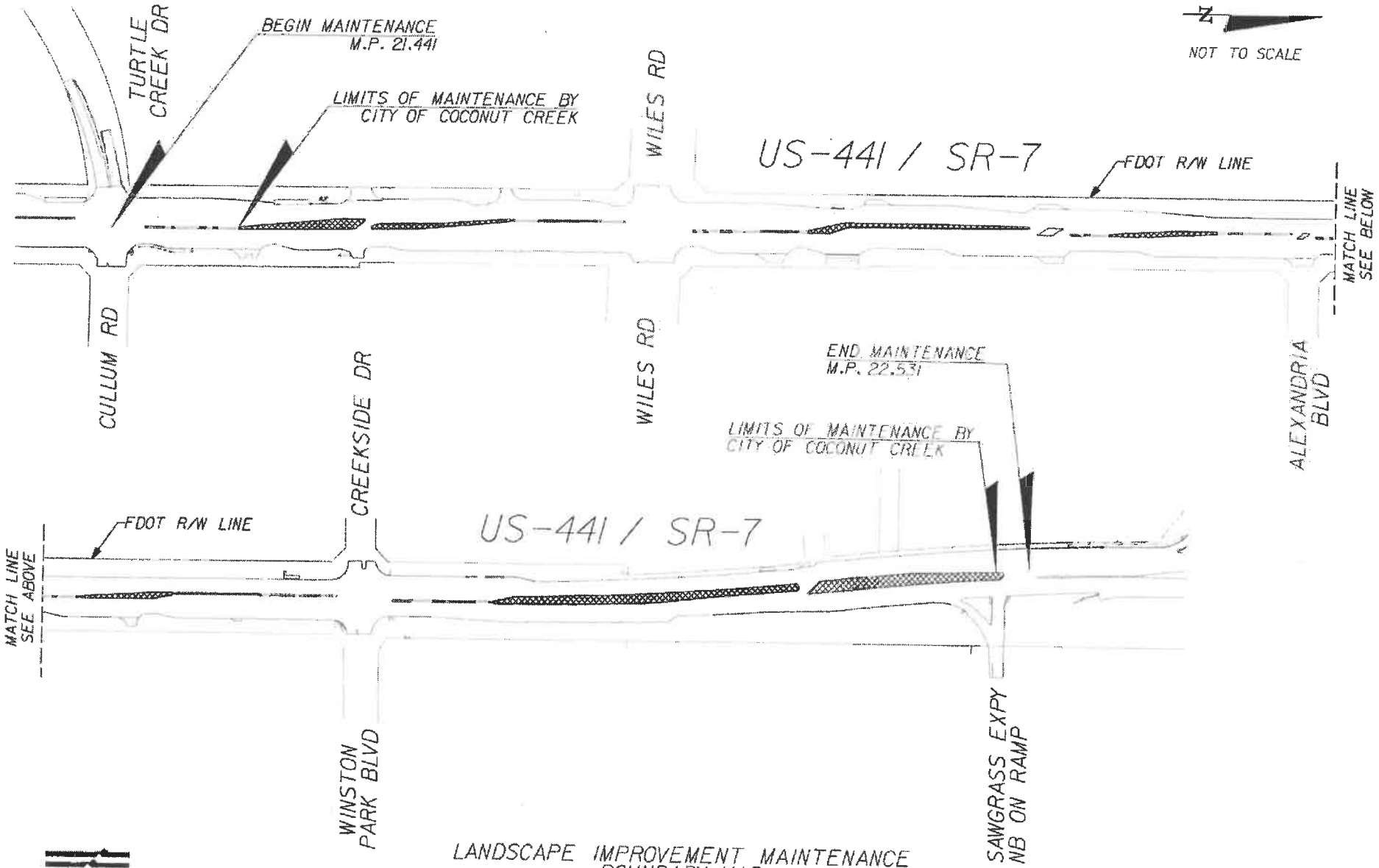
II. ORIGINAL INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT LIMITS FOR State Road 7 (US 441):

State Road 7 (US 441) from M.P. 20.861 (Winston Park/Creekside Drive) to M.P. 24.591 (Broward/Palm Beach County Line)

III. LANDSCAPE IMPROVEMENTS MAINTENANCE RESPONSIBILITIES MAP:

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

Please See Attached



KCI TECHNOLOGIES

COCONUT CREEK
BUTTERFLY CAPITAL OF THE WORLD®

LANDSCAPE IMPROVEMENT MAINTENANCE BOUNDARY MAP

CITY OF COCONUT CREEK
MAY 13, 2019
FM# 444935-1-74-01

LIMITS OF MAINTENANCE
BY CITY OF COCONUT CREEK

SECTION No.(s):	**86100000**
S.R. No.(s):	**7**
FM No:	**444935-1-74-01**
COUNTY:	**BROWARD**

EXHIBIT B

LANDSCAPE IMPROVEMENT PLANS

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

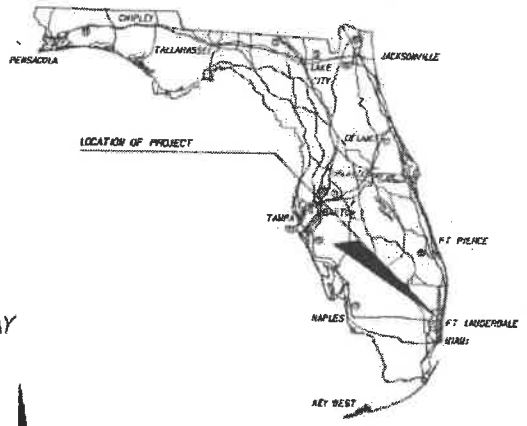
Please see attached plans prepared by:

Todd Keane Mohler, RLA
KCI
May 9, 2019

CITY OF COCONUT CREEK
BROWARD COUNTY

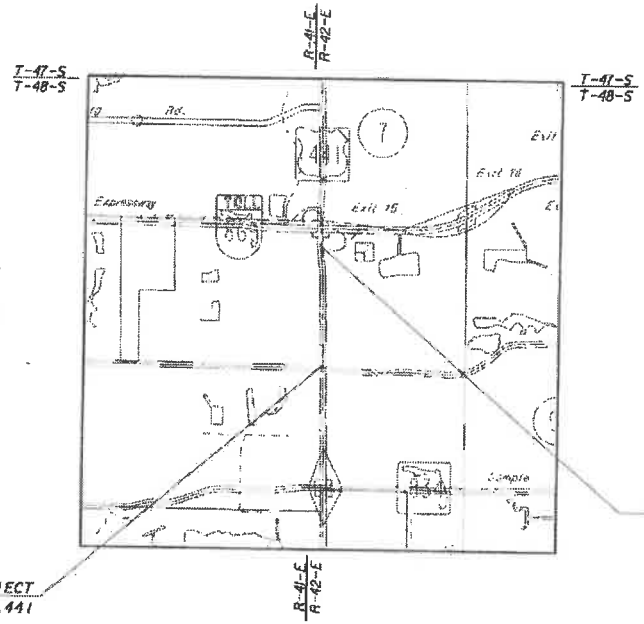
2019 STATE HIGHWAY BEAUTIFICATION GRANT
FINANCIAL PROJECT ID 444935-1-74-01
STATE ROAD NO. 7
FROM N. OF CULLUM RD TO S. OF SAWGRASS EXPRESSWAY

LANDSCAPE PLANS



INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2	LANDSCAPE GENERAL NOTES
LD-3	SHEET LAYOUT
LD-4	TREE DISPOSITION CHART
LD-5 THRU LD-14	TREE DISPOSITION PLANS
LD-15	PLANT SCHEDULE
LD-16	LANDSCAPE DETAILS
LD-17	HARDSCAPE DETAILS
LD-18 THRU LD-27	LANDSCAPE PLANS
LD-28	IRRIGATION NOTES & SCHEDULE
LD-29	IRRIGATION DETAILS
LD-30 THRU LD-39	IRRIGATION PLANS
LD-40	TRAFFIC CONTROL PLAN
LD-41	IRRIGATION PUMP ELECTRICAL PLAN



GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2018-19 Standard Plans for Road and Bridge Construction and Applicable Interim Revisions (IRs).

Standards Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

Standard Plans for Bridge Construction are included in the Structures Plans Component.

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July 2018 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

DESIGN SPEED; 45 MPH

COCONUT CREEK
BUTTERFLY CAPITAL OF THE WORLD

CITY CONTACT: BRIAN ROSEN

PLANS PREPARED BY:

KS KEITH & SCHNARS
A DIVISION OF KCI

EGJON Andrews Ave, Ft Lauderdale, FL 33309-2132 (954)776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MOHLER, RLA 0001594
CERTIFICATE OF AUTHORIZATION #1337

CERTIFICATE OF AUTHORIZATION #1337

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

REGISTERED LANDSCAPE ARCHITECT TODD KEENE MOHLER LA 0001594 FLORIDA

5/9/19

LANDSCAPE PLANS
LANDSCAPE
ARCHITECT OF RECORD: TODD MOHLER R.L.A.

R.L.A. NO.: 0001594

FISCAL YEAR	SHEET NO.
19	LD-1

GENERAL NOTES

1. PROJECT DESCRIPTION: FURNISH, INSTALL, ESTABLISH, MAINTAIN AND WARRANTY PLANTS AND INCIDENTAL WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. VERIFY SITE CONDITIONS BEFORE BIDDING.
3. UTILITIES:
   a. CALL SUNSHINE 811 OF FLORIDA (811) TWO FULL BUSINESS DAYS BEFORE DIGGING.
   b. THE CONTRACTOR MUST BE PRESENT FOR UTILITY LOCATES.
   c. INSTALL INLET PROTECTION.
4. PROTECT EXISTING TREES ADJACENT TO INSTALLATION ACTIVITIES. REPLACE TREES DAMAGED OR DESTROYED WITH THE SAME SPECIES, SIZE, AND QUALITY, OR BETTER.
5. REPAIR AND RESTORE EXISTING AREAS DISTURBED BY INSTALLATION, ESTABLISHMENT OR MAINTENANCE ACTIVITIES.
6. REMOVE LITTER, DEBRIS, AND EXCESS MATERIAL AT THE END OF EACH DAY'S WORK.
7. REMOVE UNDESIRABLE VEGETATION AND ERADICATE FLORIDA EXOTIC PLANT PEST COUNCIL CATEGORY ONE INVASIVE PLANT SPECIES. THIS INCLUDES FROM WALLS AND WITHIN FENCES.
8. STUMP GRIND TO 12" DEPTH STUMPS FROM REMOVED TREES
9. CONTRACTOR SHALL REPAIR ALL DAMAGE DONE TO FDOT PROPERTY DURING DEMOLITION, RELOCATION &/OR INSTALLATION ACTIVITIES AT HIS SOLE EXPENSE.
10. ANY PLANT MATERIAL SUBSTITUTION WITHIN OR IMPACTING THE FDOT RIGHT OF WAY WHETHER REQUESTED BY THE CONTRACTOR, OWNER, LANDSCAPE ARCHITECT OR OTHER WILL NEED TO GET APPROVAL FROM THE FDOT DISTRICT OPERATIONS MANAGER.
11. ARCHITECTURAL PAVERS INSTALLATION FOR MEDIANS WITHIN FDOT RIGHT OF WAY SHALL COMPLY WITH CURRENT FDOT STANDARD SPECIFICATION 528. ONLINE REFERENCE: HTTP://WWW.FDOT.GOV/PROGRAMMANAGEMENT/IMPLEMENTED/SPECBOOKS/JANUARY2016/FILES/118EBOOK.PDF
12. OWNERSHIP OF ALL SUITABLE EXCAVATED MATERIALS, AS DETERMINED BY THE DEPARTMENT, SHALL REMAIN IN THE DEPARTMENT UNTIL A FINAL ACCEPTANCE OF THE PERMITTED PROJECT IS FULFILLED. EXCAVATED MATERIALS SHALL BE HAULED BY THE PERMITTEE, AT THEIR COST & EXPENSE FROM THE SITE TO THE BROWARD OPERATIONS CENTER OR STOCKPILED IN THOSE AREAS AS DIRECTED BY THE DEPARTMENT, INCLUDING ASPHALT MILLINGS.
13. LOCATE EXISTING FDOT AND COUNTY DRAINAGE, ITS AND ELECTRICAL FACILITIES PRIOR TO CONSTRUCTION.

PLANTING NOTES

1. LANDSCAPE PLANT MATERIAL INSTALLED WITHIN THE FDOT RIGHT OF WAY SHALL COMPLY WITH CURRENT FDOT MAINTENANCE SPECIFICATIONS 580-2.1. ONLINE REFERENCE: HTTP://WWW.FDOT.GOV/PROGRAMMANAGEMENT/MAINTENANCE/2018/AN/DEFAULT.SHTM.
2. REFER TO FDOT STANDARD PLANS INDEX 580-001 LANDSCAPE INSTALLATION. ONLINE REFERENCE: HTTP://WWW.FDOT.GOV/DESIGN/STANDARDPLANS/CURRENT/IDX/580-001.PDF
3. CONTRACTOR SHALL PRESERVE A CONTINUOUS BAND OF UNDISTURBED COMPACTED SUB-BASE 18" FROM THE BACK OF CURB.
4. CYPRESS MULCH IS NOT PERMITTED ON FDOT RIGHT OF WAY. MULCH PERMITTED TO BE USED ARE HARDWOOD MULCH (CONTAINING NO CYPRESS PRODUCTS), RECYCLED MULCH OR APPROVED EQUAL, CERTIFIED BY THE MULCH AND SOIL COUNCIL (MSC).
   SUBMIT PROOF OF CERTIFICATION TO THE FDOT DISTRICT OPERATIONS PERMIT LANDSCAPE INSPECTOR UPON INSPECTION.
5. SODDED AREAS WILL BE IN ACCORDANCE WITH STANDARD PLANS INDEX 570-010 AND STANDARD SPECIFICATIONS SECTIONS 162, 570, 981, 982, 983, 987 OF THE DEPARTMENT'S LATEST EDITION OF GOVERNING DESIGN STANDARDS AND STANDARD SPECIFICATIONS. ALL DISTURBED AREAS WILL BE SODDED WITHIN ONE (1) WEEK OF INSTALLATION OF SAID PERMITTED WORK.
6. SUBMITTALS: NOT LESS THAN 14 DAYS BEFORE THE PRECONSTRUCTION MEETING, SUBMIT:
   a. SCHEDULE OF VALUES FOR EACH ITEM OF WORK.
   b. WEED CONTROL PRODUCT INFORMATION AND APPLICATION PROCEDURES.
   c. WATERING APPLICATION PROCEDURES.
   d. SOIL AMENDMENT PRODUCT INFORMATION AND APPLICATION PROCEDURES.
   e. FERTILIZER PRODUCT INFORMATION AND APPLICATION PROCEDURES.
   f. LANDSCAPE CONTRACTOR CERTIFICATION BY THE FLORIDA NURSERY GROWERS AND LANDSCAPE ASSOCIATION.
   g. ARBORIST CERTIFICATION BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA).
   h. ROOT PRUNING PROCEDURES.
   i. A LIST OF NURSERIES WHERE PLANTS ARE TAGGED, INCLUDING CONTACT INFORMATION AND LOCATION. THE CITY AND CONTRACTOR MAY VISIT THE NURSERY SITES TO INSPECT REPRESENTATIVE SAMPLES AND LOCK TAG THE EXAMPLE PLANT MATERIAL.
   j. AN ESTABLISHMENT PLAN FOR REVIEW AND COMMENT. SPECIFICALLY DESCRIBE THE ACTIVITIES AND SCHEDULE TO ACHIEVE ESTABLISHMENT OF PLANTS AND INCIDENTAL WORK. ACCEPTANCE OF THE ESTABLISHMENT PLAN IS NOT A RELEASE FROM RESPONSIBILITY OF THE ESTABLISHMENT AND MAINTENANCE AS REQUIRED IN THE CONTRACT DOCUMENTS. PERFORM ANCILLARY ACTIVITIES THAT MAY BE REQUIRED TO ESTABLISH AND MAINTAIN PLANTS AND INCIDENTAL WORK.
   k. EXISTING TREE PROTECTION PROCEDURES.
   l. A SHOP DRAWING OF THE TREE RELOCATION TAGGING METHOD.
7. INSTALLATION: AN FNGLA CERTIFIED LANDSCAPE CONTRACTOR MUST BE ON SITE TO DIRECT LANDSCAPE OPERATIONS.
8. INSTALL PLANTS THAT COMPLY WITH THE FLORIDA DEPARTMENT OF AGRICULTURE'S "GRADES AND STANDARDS FOR NURSERY PLANTS", MINIMUM GRADE FLORIDA NUMBER 1, UNLESS OTHERWISE SPECIFIED. MAKE PLANT MATERIALS FOR INSPECTION BEFORE INSTALLATION.
9. LAYOUT: MARK PLANT LOCATIONS BEFORE INSTALLATION. NOTIFY THE CITY WHEN COMPLETE. ADJUST FINAL LOCATIONS WHEN DIRECTED. INSTALL NO PLANTS THAT WILL BLOCK OR CREATE CONFLICTS WITH:
   a. SIGNS.
   b. LIGHTS.
   c. OVERHEAD AND UNDERGROUND UTILITIES.
   d. ACCESS WAYS.
   e. GATES.
   f. FPL RIGHT TREE/RIGHT PLACE SETBACKS.
   g. ANSI Z-133 UTILITY CLEARANCE REQUIREMENTS
   h. FIRE PROTECTION EQUIPMENT.
10. SOIL AMENDMENT: BACKFILL PLANTING HOLES WITH A 75/25 MIX OF EXISTING SOIL AND DECOMPOSED COMPOST.
11. FROM INSTALLATION TO FINAL ACCEPTANCE, AT A MINIMUM:
    a. MAINTAIN PLANTS AT THE SPECIFIED MINIMUM GRADE.
    b. OPERATE AND MAINTAIN THE IRRIGATION SYSTEM.
    c. MAINTAIN THE SOIL MOISTURE AT FIELD CAPACITY. FIELD CAPACITY WILL BE DETERMINED FROM A 4 INCH DEEP EXCAVATION WHERE THE SOIL MUST HOLD TOGETHER AND FORM A HAND CLUMP.
    d. APPLY AN 8-2-12+4 MG FERTILIZER, PLUS WATER SOLUBLE MICRONUTRIENTS. 100 PERCENT OF THE (N) NITROGEN, (K) POTASSIUM, (MG), MAGNESIUM AND (B) BORON MUST BE IN CONTROLLED RELEASE FORM. APPLY 1.5 POUNDS OF ACTUAL FERTILIZER PER 100 SQUARE FEET FROM A CALIBRATED SPREADER. BEGIN FERTILIZATION AT INSTALLATION AND REPEAT EVERY 3 MONTHS.
    e. MAINTAIN A 3 INCH RED MULCH COVER.
    f. PRUNING: AN ISA CERTIFIED ARBORIST MUST BE ON SITE TO DIRECT PRUNING OPERATIONS. FOLLOW ANSI A300 PART 1 PRUNING STANDARDS AND THESE PLANS. PRUNING IS REQUIRED TO:
       i. REMOVE CROSSING, DEFLECTING, AND CIRCLING ROOTS.
       ii. REMOVE CROSSING, DEAD, AND DAMAGED BRANCHES.
       iii. ESTABLISH AND MAINTAIN FLORIDA NUMBER 1 BRANCH STRUCTURE.
       iv. MAINTAIN HORIZONTAL AND VERTICAL CLEARANCES WITHIN THE LIMITS OF CLEAR SIGHT PER FDM CHAPTER 212.
       v. MAINTAIN VISIBILITY OF SIGNS.
       vi. COMPLY WITH THESE PLANS.

REVISIONS	
DATE	DESCRIPTION

Coconut Creek — Butterfly Capital of the World®

KS KEITH & SCHNARS — A DIVISION OF KCI

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

LANDSCAPE GENERAL NOTES

SHEET NO. LD-02

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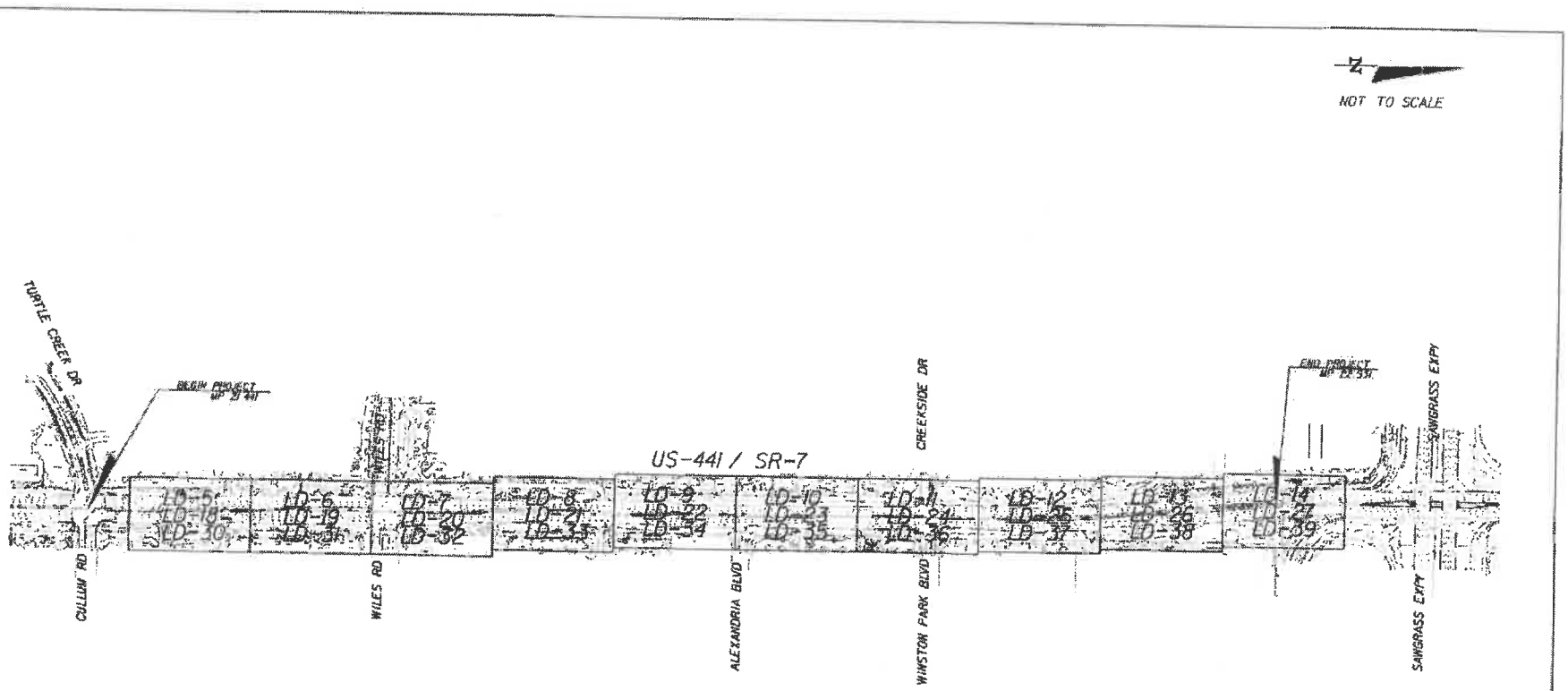

REVISIONS		
DATE	DESCRIPTION	

COCONUT CREEK
BUTTERFLY CAPITAL OF THE WORLD

KEITH SCHNARS
A DIVISION OF KCI

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-75-01

SHEET LAYOUT

SHEET NO.
LD-3

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DISPOSITION CHART

NO.	SCIENTIFIC NAME	COMMON NAME	DBH INCH	SPREAD FOOT	HEIGHT FOOT	CONDITION	DISPOSITION	SHEET NO
1	QUERCUS VIRGINIANA	LIVE OAK	5	20	22	GOOD	REMAIN	LD - 05
2	QUERCUS VIRGINIANA	LIVE OAK	7	16	18	GOOD	REMAIN	LD - 05
3	QUERCUS VIRGINIANA	LIVE OAK	14	27	22	GOOD	REMAIN	LD - 05
4	SABAL PALMETTO	SABAL	10	10	18	GOOD	REMAIN	LD - 05
5	SABAL PALMETTO	SABAL	10	10	20	GOOD	REMAIN	LD - 05
6	SABAL PALMETTO	SABAL	16	14	18	GOOD	RELOCATE	LD - 05
7	SABAL PALMETTO	SABAL	16	16	18	GOOD	RELOCATE	LD - 05
8	QUERCUS VIRGINIANA	LIVE OAK	12	20	22	GOOD	REMOVE	LD - 05
9	QUERCUS VIRGINIANA	LIVE OAK	9	20	22	GOOD	REMAIN	LD - 06
10	SABAL PALMETTO	SABAL	11.5	12	18	GOOD	REMAIN	LD - 09
11	SABAL PALMETTO	SABAL	11.5	10	18	GOOD	REMAIN	LD - 09
12	SABAL PALMETTO	SABAL	8.5	16	18	GOOD	REMAIN	LD - 10
13	SABAL PALMETTO	SABAL	9.5	18	18	GOOD	REMAIN	LD - 10
14	QUERCUS VIRGINIANA	LIVE OAK	8	26	26	GOOD	REMAIN	LD - 12
15	SABAL PALMETTO	SABAL	20	18	20	GOOD	REMAIN	LD - 12
16	SABAL PALMETTO	SABAL	14	18	18	GOOD	REMAIN	LD - 12
17	SABAL PALMETTO	SABAL	16	18	18	GOOD	REMAIN	LD - 12
18	SABAL PALMETTO	SABAL	18	18	20	GOOD	REMAIN	LD - 12
19	SABAL PALMETTO	SABAL	12	20	18	GOOD	REMAIN	LD - 12
20	SABAL PALMETTO	SABAL	18	16	18	GOOD	REMAIN	LD - 12
21	SABAL PALMETTO	SABAL	19	16	20	GOOD	REMAIN	LD - 12
22	SABAL PALMETTO	SABAL	10	18	18	GOOD	REMAIN	LD - 12
23	QUERCUS VIRGINIANA	LIVE OAK	9	18	20	GOOD	REMAIN	LD - 12
24	QUERCUS VIRGINIANA	LIVE OAK	9	16	16	GOOD	REMAIN	LD - 12
25	QUERCUS VIRGINIANA	LIVE OAK	9	18	20	GOOD	REMAIN	LD - 12
26	QUERCUS VIRGINIANA	LIVE OAK	9	18	20	GOOD	REMAIN	LD - 12
27	QUERCUS VIRGINIANA	LIVE OAK	8	18	20	GOOD	REMAIN	LD - 12
28	SABAL PALMETTO	SABAL	6	10	18	GOOD	REMAIN	LD - 12
29	SABAL PALMETTO	SABAL	6	16	16	GOOD	REMAIN	LD - 12
30	SABAL PALMETTO	SABAL	8	18	18	GOOD	REMAIN	LD - 12
31	SABAL PALMETTO	SABAL	8	16	16	GOOD	REMAIN	LD - 12
32	SABAL PALMETTO	SABAL	8	18	18	GOOD	REMAIN	LD - 12
33	SABAL PALMETTO	SABAL	8	16	16	GOOD	REMAIN	LD - 12
34	SABAL PALMETTO	SABAL	8	18	18	GOOD	REMAIN	LD - 12
35	SABAL PALMETTO	SABAL	6	18	16	GOOD	REMAIN	LD - 12
36	SABAL PALMETTO	SABAL	8	18	18	DEAD	REMOVE	LD - 12
37	SABAL PALMETTO	SABAL	8	18	18	GOOD	REMAIN	LD - 12
38	SABAL PALMETTO	SABAL	8	18	18	GOOD	REMAIN	LD - 12
39	SABAL PALMETTO	SABAL	8	18	18	GOOD	REMAIN	LD - 12
40	SABAL PALMETTO	SABAL	9	18	18	GOOD	REMAIN	LD - 12
41	SABAL PALMETTO	SABAL	9	18	18	GOOD	REMAIN	LD - 12
42	QUERCUS VIRGINIANA	LIVE OAK	8	26	18	GOOD	REMAIN	LD - 13
43	QUERCUS VIRGINIANA	LIVE OAK	6	22	16	FAIR	REMAIN	LD - 13
44	QUERCUS VIRGINIANA	LIVE OAK	7	16	18	FAIR	REMOVE	LD - 13
45	QUERCUS VIRGINIANA	LIVE OAK	3	12	14	FAIR	REMOVE	LD - 13

DISPOSITION CHART

NO.	SCIENTIFIC NAME	COMMON NAME	DBH INCH	SPREAD FOOT	HEIGHT FOOT	CONDITION	DISPOSITION	SHEET NO.
46	QUERCUS VIRGINIANA	LIVE OAK	4	16	20	FAIR	REMOVE	LD - 13
47	QUERCUS VIRGINIANA	LIVE OAK	9.5	32	24	GOOD	REMAIN	LD - 13
48	QUERCUS LAURIFOLIA	LAUREL OAK	4.5	8	18	DEAD	REMOVE	LD - 13
49	QUERCUS VIRGINIANA	LIVE OAK	8	20	22	GOOD	REMAIN	LD - 13
50	QUERCUS LAURIFOLIA	LAUREL OAK	5.5	24	18	POOR	REMAIN	LD - 13
51	SABAL PALMETTO	SABAL	10	18	16	GOOD	REMAIN	LD - 13
52	SABAL PALMETTO	SABAL	8	18	18	GOOD	REMAIN	LD - 13
53	SABAL PALMETTO	SABAL	8	18	18	GOOD	REMAIN	LD - 14
54	SABAL PALMETTO	SABAL	9	18	26	GOOD	REMAIN	LD - 14
55	SABAL PALMETTO	SABAL	10	18	26	GOOD	REMAIN	LD - 14
56	SABAL PALMETTO	SABAL	10	20	26	GOOD	REMAIN	LD - 14
57	SABAL PALMETTO	SABAL	10	18	18	GOOD	REMAIN	LD - 14
58	SABAL PALMETTO	SABAL	10	20	20	GOOD	REMAIN	LD - 14
59	SABAL PALMETTO	SABAL	9	18	18	GOOD	REMAIN	LD - 14
60	SABAL PALMETTO	SABAL	8	16	18	GOOD	REMAIN	LD - 14
61	SABAL PALMETTO	SABAL	9	18	18	GOOD	REMAIN	LD - 14
62	SABAL PALMETTO	SABAL	8	16	18	GOOD	REMAIN	LD - 14
63	SABAL PALMETTO	SABAL	8	18	18	GOOD	REMAIN	LD - 14
64	SABAL PALMETTO	SABAL	8	18	16	GOOD	REMAIN	LD - 14
65	QUERCUS VIRGINIANA	LIVE OAK	7.5	18	18	FAIR	REMOVE	LD - 14
66	QUERCUS VIRGINIANA	LIVE OAK	8	16	20	FAIR	REMOVE	LD - 14
67	QUERCUS VIRGINIANA	LIVE OAK	9	18	20	FAIR	REMOVE	LD - 14

PLANT RELOCATION NOTES

1. ATTACH TREE IDENTIFICATION TAGS THAT MATCH PLAN NUMBERS.
2. WATER TREE ROOT ZONES TO FIELD CAPACITY FOR 5 CONTINUOUS DAYS BEFORE ROOT PRUNING.
3. ROOT PRUNE 8 WEEKS BEFORE RELOCATION.
4. ROOT PRUNE WITH EQUIPMENT TO SEVER ROOTS. ENSURE ROOT ARE NOT TORN OR PULLED APART.
5. FORM A ROOTBALL. SIZE IN COMPLIANCE WITH FLORIDA GRADES AND STANDARDS FLORIDA NUMBER ONE OR BETTER
6. MAINTAIN THE SOIL MOISTURE AT FIELD CAPACITY THROUGHOUT THE 8 WEEKS.
7. BRACE ROOT PRUNED TREES AWAITING RELOCATION.
8. INSTALL TREES WITHIN 24 HOURS OF REMOVAL FROM THEIR ORIGINAL LOCATION.
9. MAINTAIN TREES IN THEIR ORIGINAL CONDITION OR BETTER.

REVISIONS	
DATE	DESCRIPTION

COCONUT CREEK
BUTTERFLY CAPITAL OF THE WORLD

KEITH & SCHNARS
A DIVISION OF KCI
2555 N. Andrews Ave. Ft. Lauderdale, FL 33311-2132 (954) 776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MOSIER, FLA. 0001504
CERTIFICATE OF AUTHORIZATION #1337

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

TREE DISPOSITION CHART

SHEET NO.
LD-04

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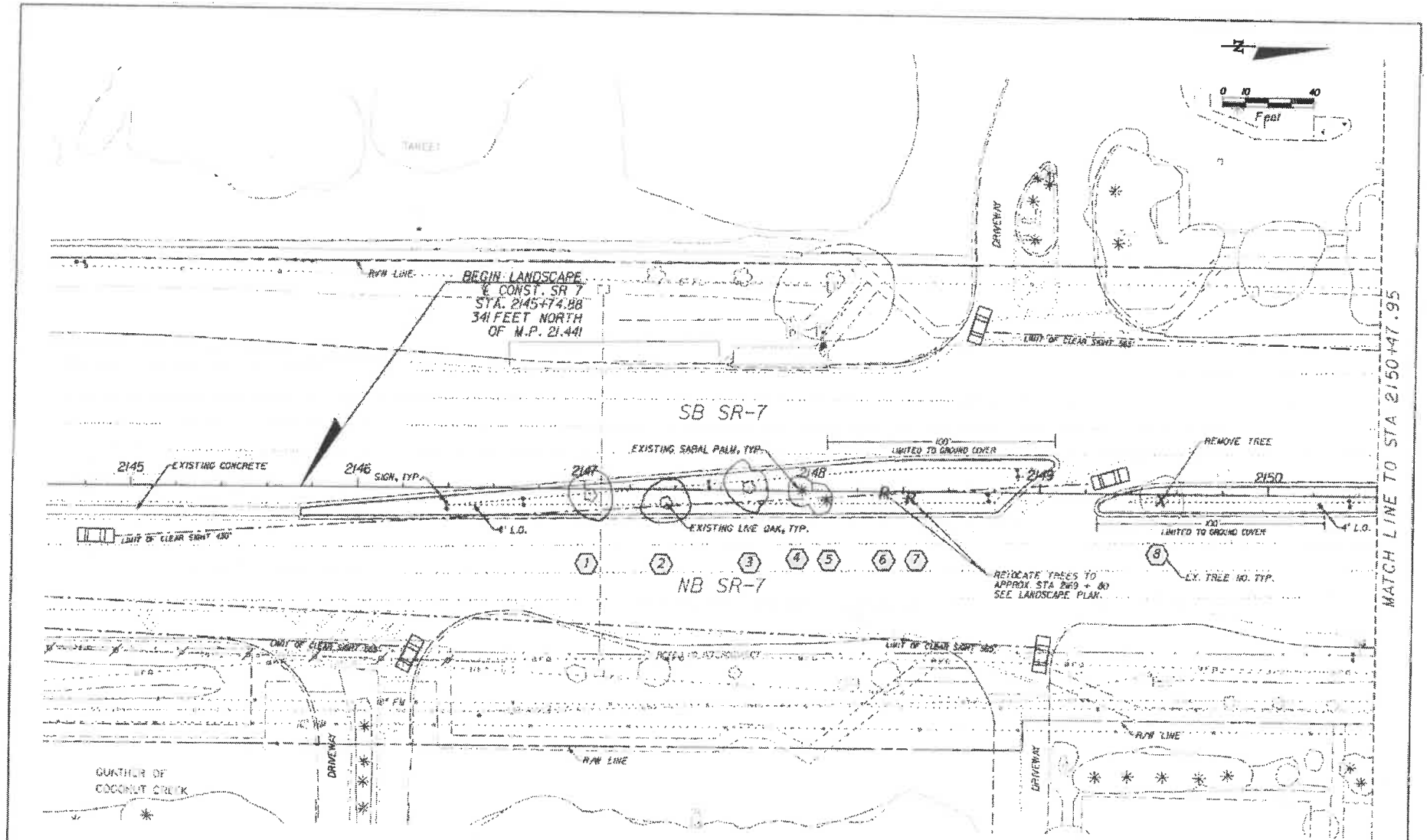

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DATE	DESCRIPTION					

COCONUT CREEK
BUTTERFLY CAPITAL OF THE WORLD

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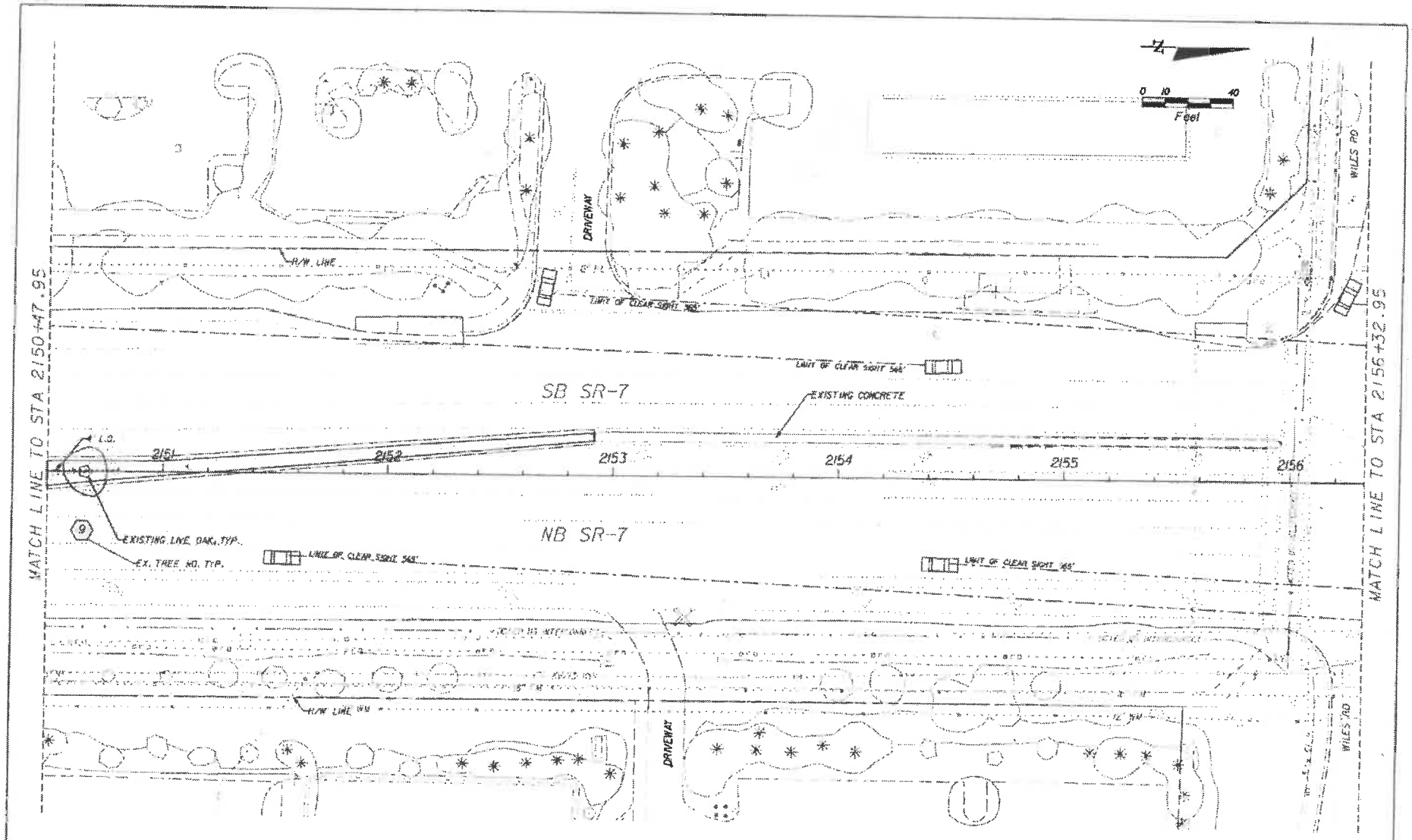
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

TREE DISPOSITION PLAN

SHEET NO. LD-05



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DATE	DESCRIPTION

Coconut Creek
Butterfly Capital of the World

KS KEITH & SCHNARS
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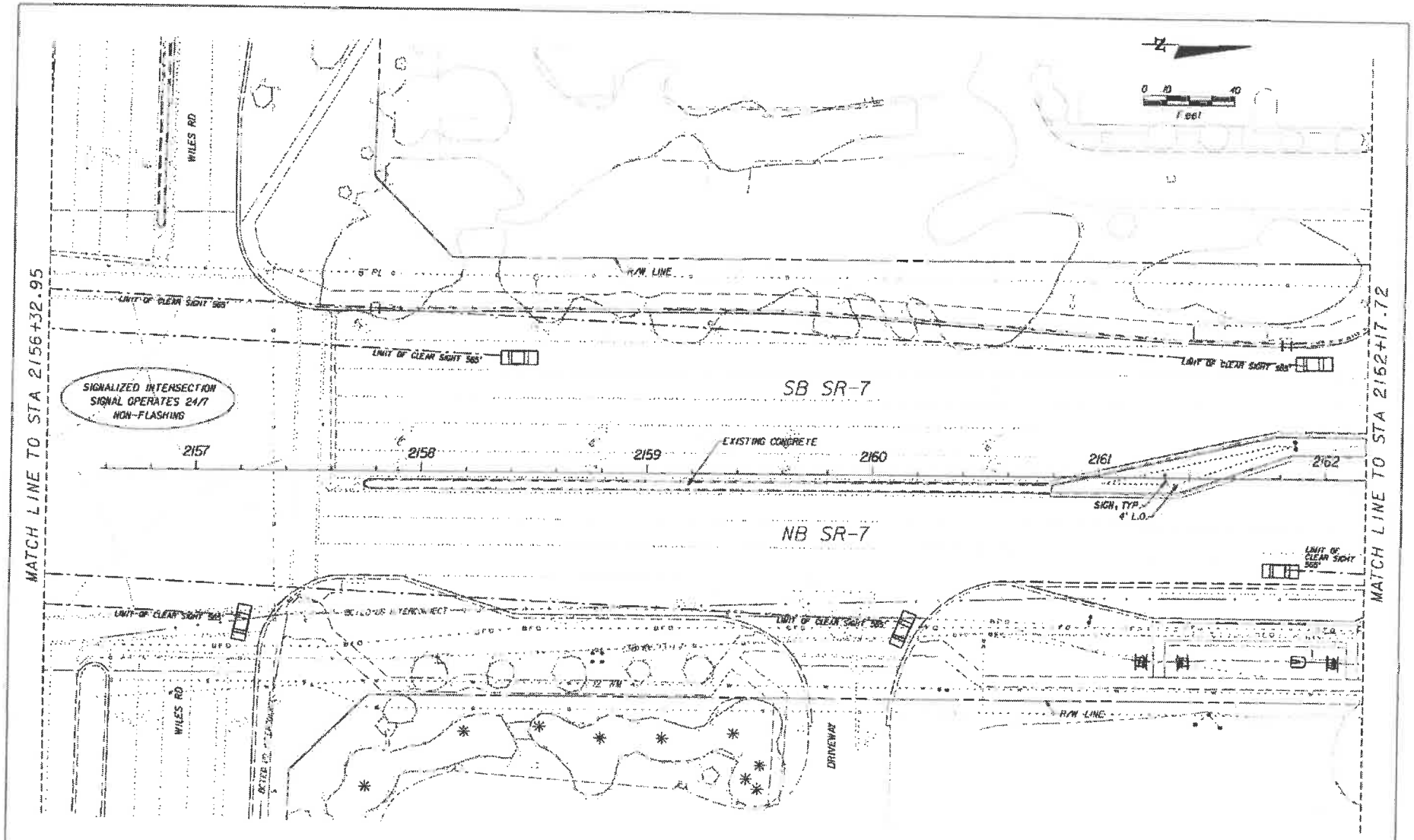
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444335 1-74-01

TREE DISPOSITION PLAN

SHEET NO.
LD-06



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DATE	DESCRIPTION	

Coconut Creek
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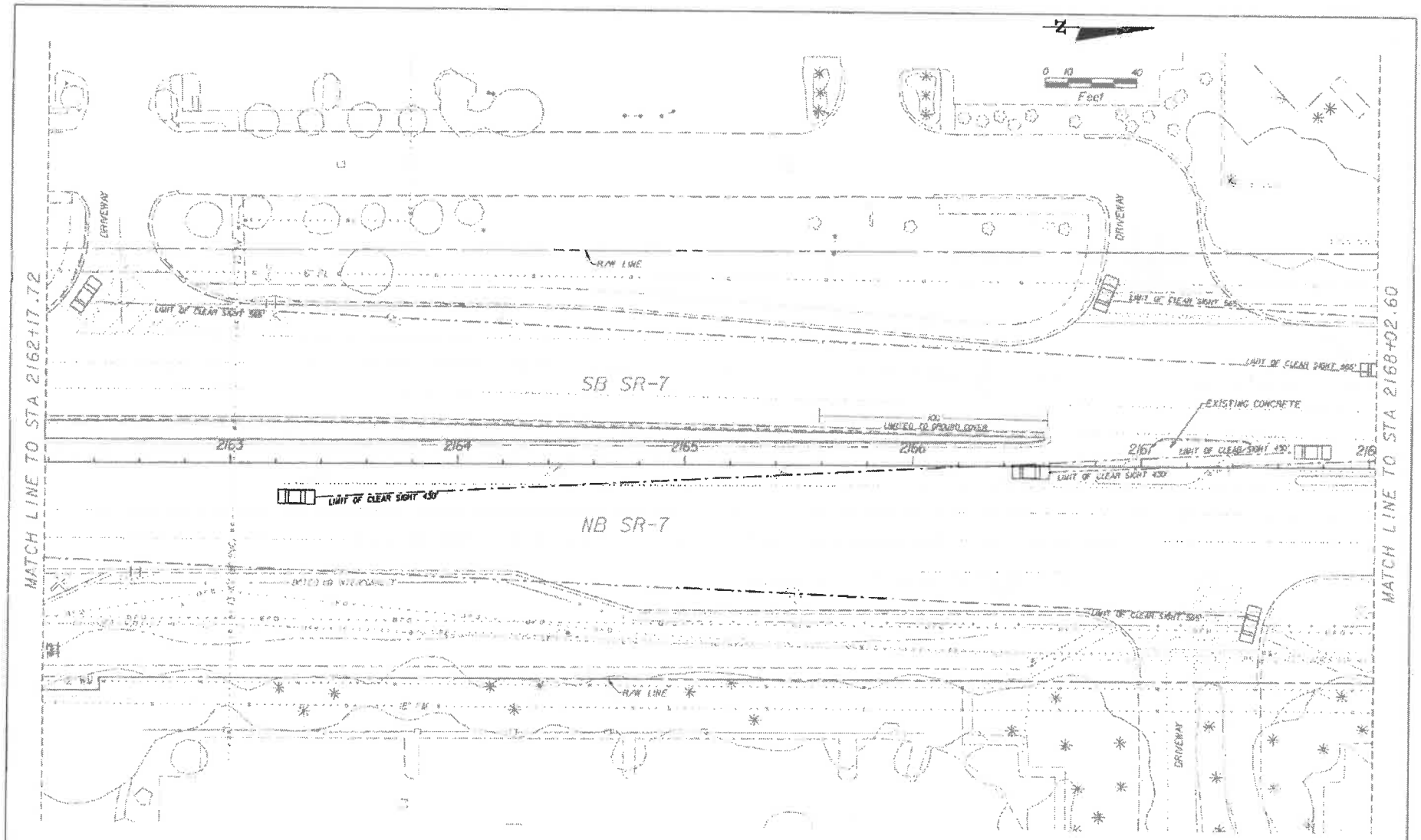
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

TREE DISPOSITION PLAN

SHEET NO. LD-07



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Coconut Creek
Butterfly Capital of the World

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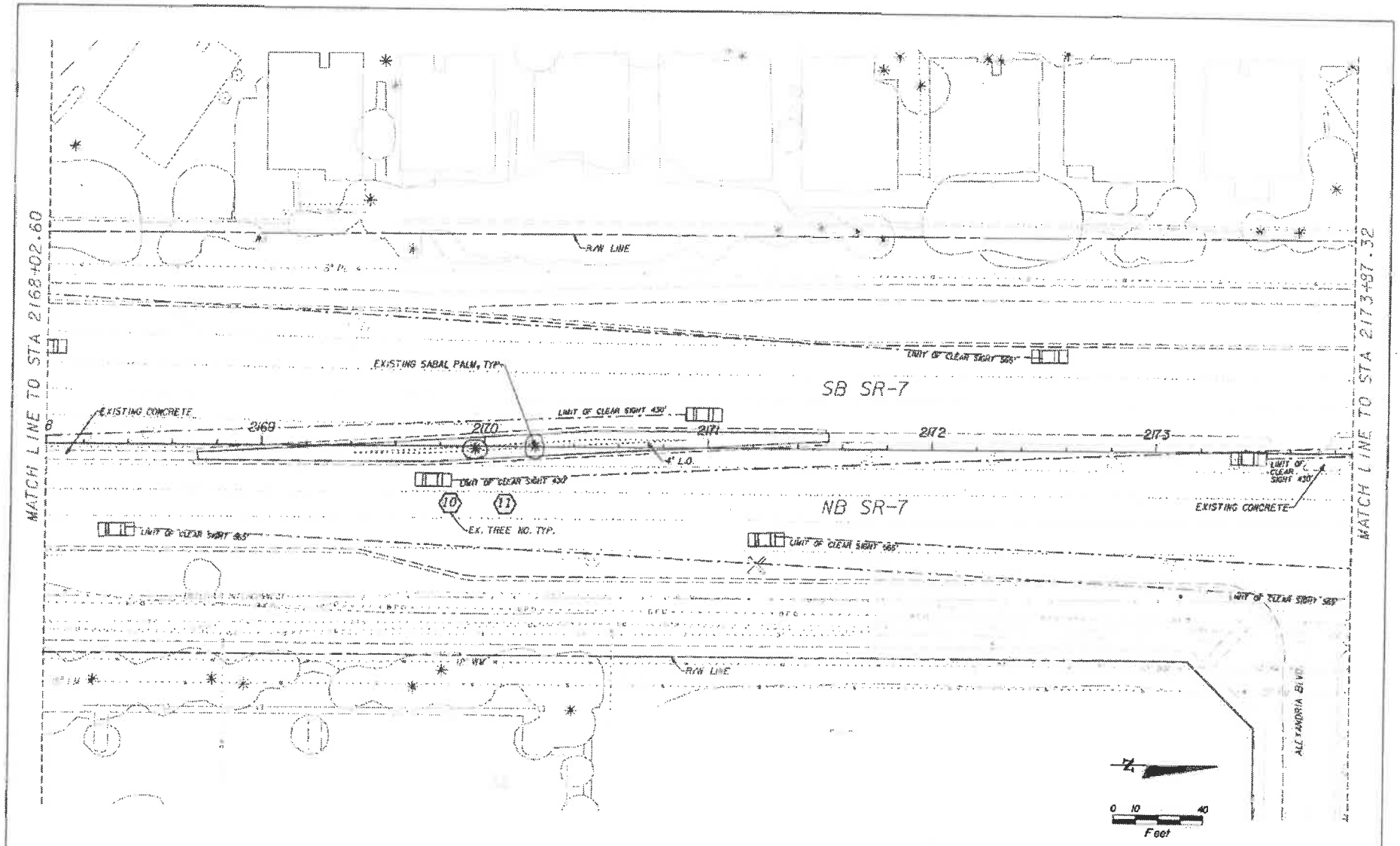
2560 N. Andrews Ave. Ft. Lauderdale, FL. 33309-2132 (954) 776-1616
LANDSCAPE ARCHITECT OF RECORD, TODD MOHLER, FLA. #0001501
CERTIFICATE OF AUTHORIZATION #1337

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT NO.
7	COCONUT CREEK	444935-1-74-01

TREE DISPOSITION PLAN

SHEET NO.
LD-08



REVISIONS		
DATE	DESCRIPTION	

COCONUT CREEK
BUTTERFLY CAPITAL OF THE WORLD

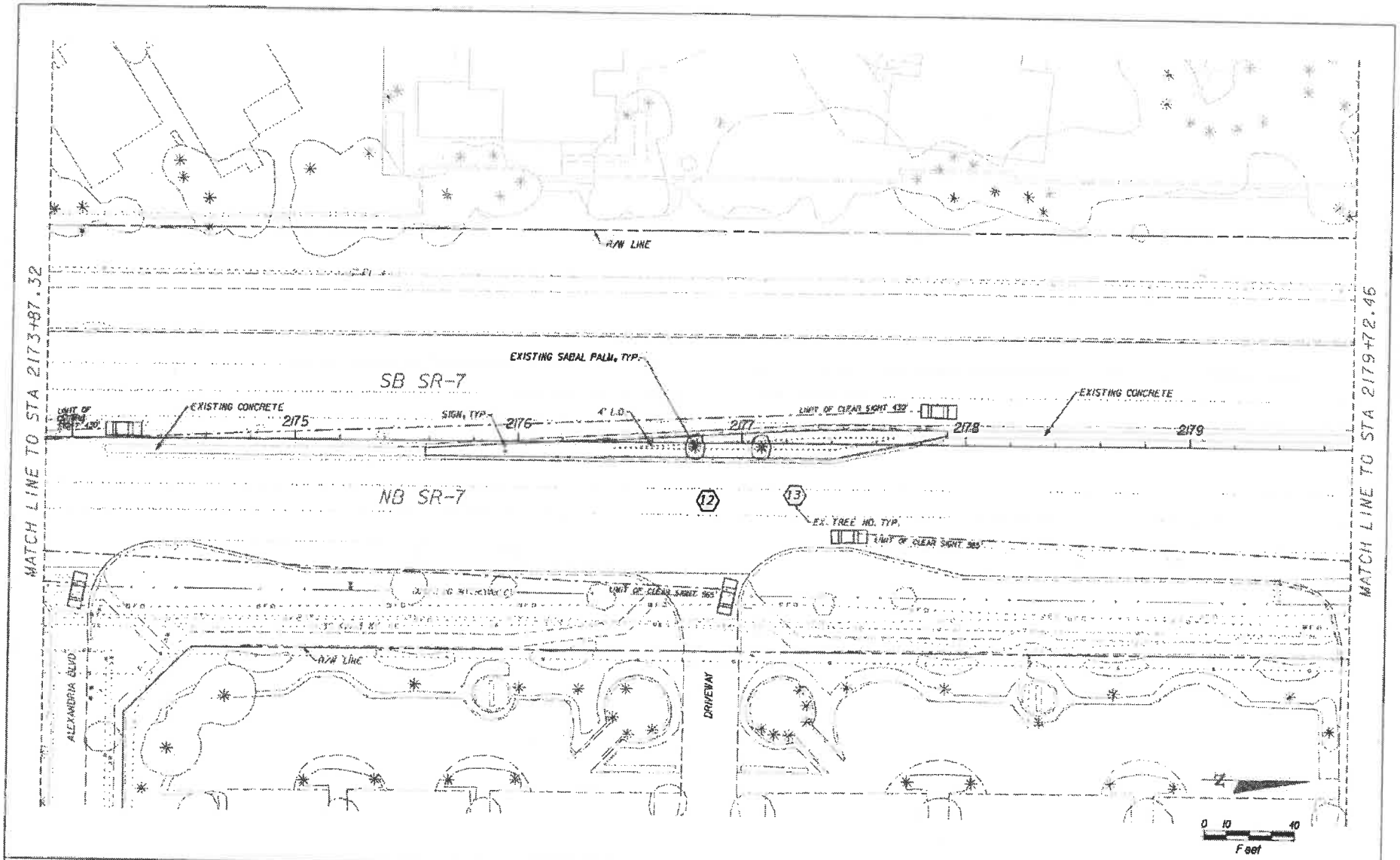
KS KEITH & SCHNARS
A DIVISION OF KCI
2000 N. Andrews Ave., Ft. Lauderdale, FL 33311-7132 (954)776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MONLER, FLA. #0001584
CERTIFICATE OF AUTHORIZATION #1397

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

TREE DISPOSITION PLAN

SHEET NO.
LD-09



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DATE	DESCRIPTION

Coconut Creek
Butterfly Capital of the World

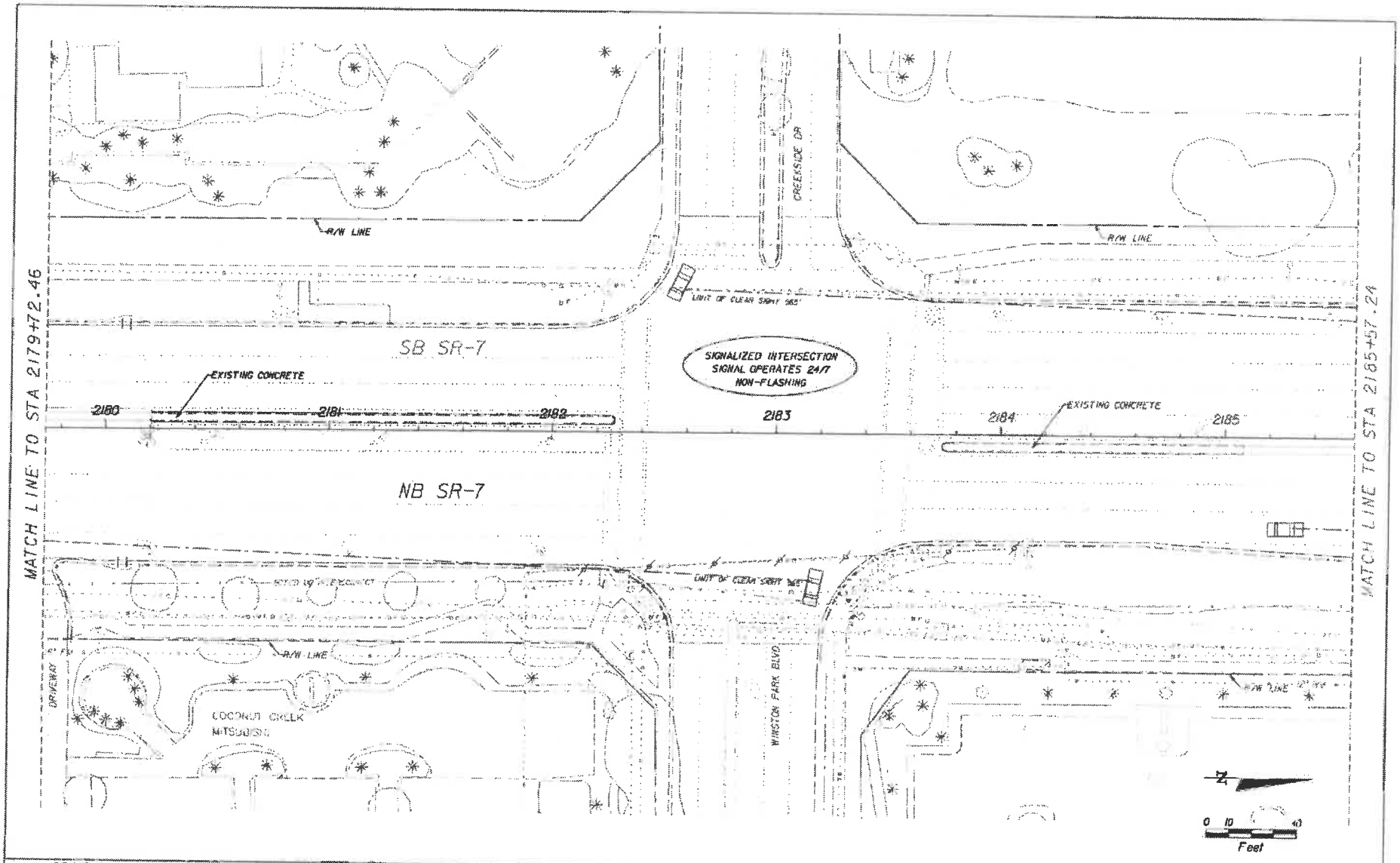
KS KEITH & SCHNARS
A DIVISION OF KCI

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	449535-1-74-01

TREE DISPOSITION PLAN

SHEET NO. LD-10



REVISIONS	
DATE	DESCRIPTION

Coconut Creek
Butterfly Capital of the World®

KS KEITH & SCHNARS
A DIVISION OF KCI
3000 N. Andrews Ave., Ft. Lauderdale, FL 33308-3131 (954)776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MOHLER, FLA. #0001594
CERTIFICATE OF AUTHORIZATION #1287

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

TREE DISPOSITION PLAN

SHEET NO. LD-11

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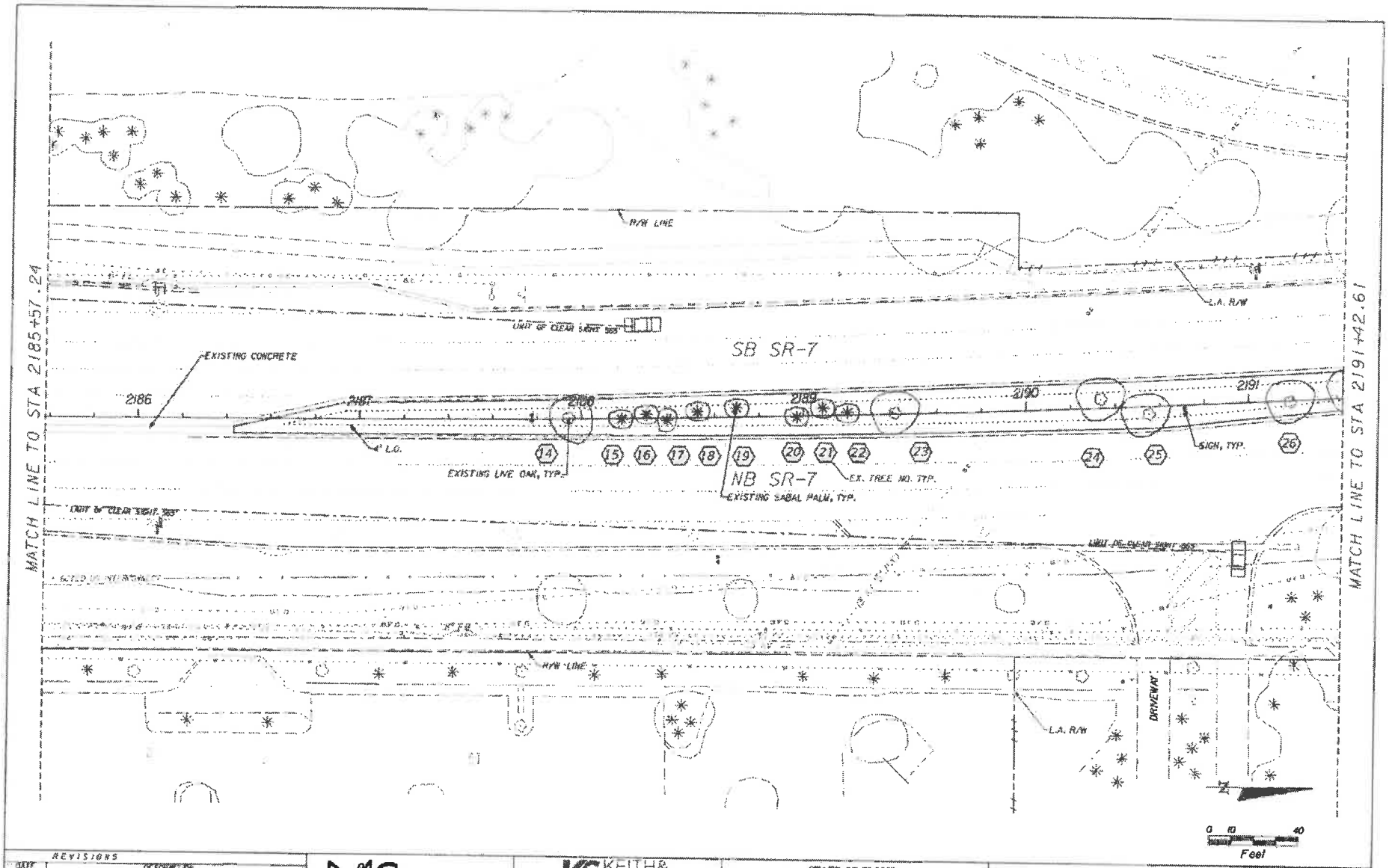


REVISIONS

DATE	DESCRIPTION

Coconut Creek
Butterfly Capital of the World

KS KEITH & SCHNARS
A DIVISION OF KCI

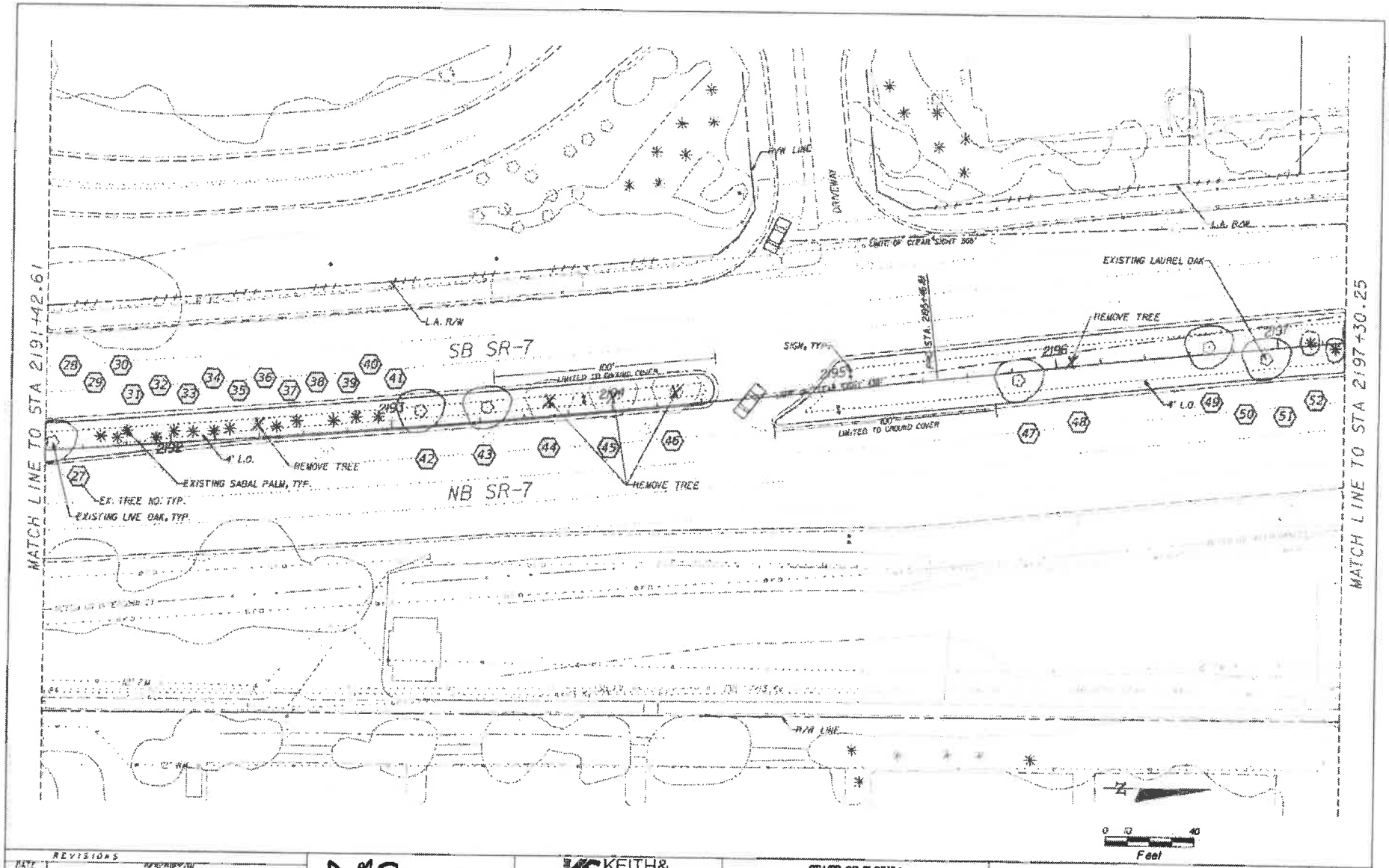
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

TREE DISPOSITION PLAN

SHEET NO. LD-12

4/12/2019



DATE	REVISIONS	BY

Coconut Creek
Butterfly Capital of the World

KS KEITH & SCHNARS
P.A. A DIVISION OF KCI
6500 N. Andrews Ave. Ft. Lauderdale, FL. 33309-2155 (954)776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MOELLER, FLA. #0001594
CERTIFICATE OF AUTHORIZATION #1727

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

TREE DISPOSITION PLAN

SHEET NO. LD-13

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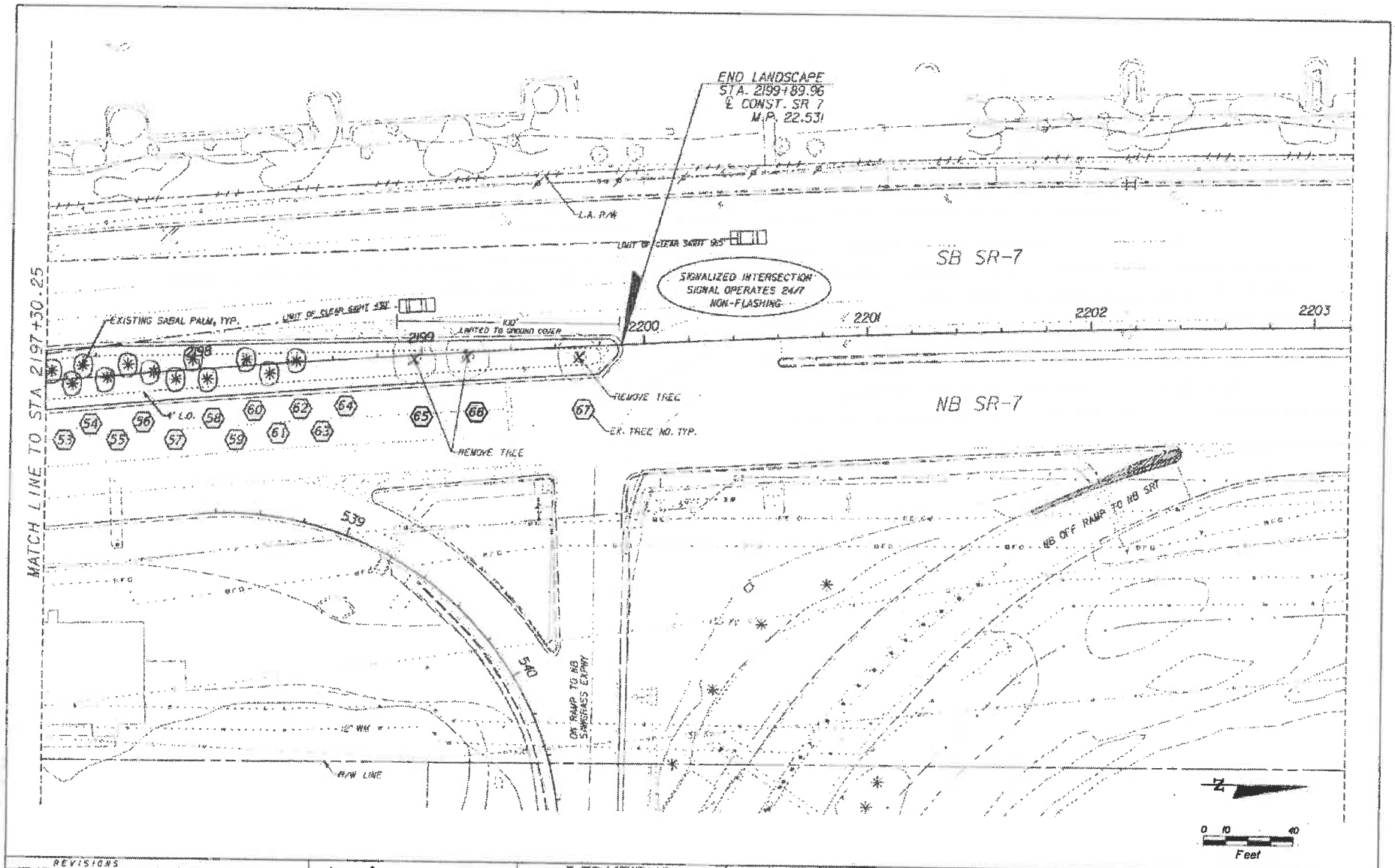

REVISIONS							
DATE	DESCRIPTION						

Coconut Creek
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

TREE DISPOSITION PLAN

SHEET NO. LD-14

LANDSCAPE TABULATION OF QUANTITIES

Date: 4/11/2019
Local Name: S.R. 7 HBC GRANT

C:\Users\adam\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\Copy of 14295.04_LP_R_TOQ.xlsx]LANDSCAPE

KEY	QTY	SCIENTIFIC NAME	COMMON NAME	SPACING	CAL	SIZE	REMARKS
SHRUBS							
IV	184	ILEX VOMITORIA 'STOKES DWARF'	DWARF YAUPON HOLLY	24 IN O.C.	N/A	3G 12 IN HT X 12 IN SPR	
CI	842	CHRYSOBALANUS ICACO 'HORIZONTALIS'	HORIZONTAL COCOPLUM	24 IN O.C.	N/A	3G, 18 IN HT X 9 IN SPR	
TJ	741	TRACHELOSPERMUM JASMINOIDES	CONFEDERATE JASMINE	24 IN O.C.	N/A	3G 18 IN HT X 9 IN SPR	
TREES							
BA	3	BULNESIA ARBOREA	VERAWOOD TREE	AS SHOWN	2.5 IN	45G 10 FT HT 5 FT SPR	
LS	8	LAGERSTROEMIA SPECIOSA	QUEEN'S CRAPE MYRTLE	AS SHOWN	2 IN	10 FT HT X 6 FT SPR	SINGLE TRUNK (STANDARD)
QV	10	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	AS SHOWN	3-4 IN	14 FT HT X 7 FT SPR	
SP	10	SABAL PALMETTO	SABAL PALM	AS SHOWN	N/A	12 - 24 FT, O.A.	BOOTED
SPR	2	SABAL PALMETTO - RELOCATED	RELOCATED SABAL PALM	AS SHOWN	N/A		
PE	20	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	AS SHOWN	4 IN	5 FT CT,10 FT CT. MATCHED	
SOD							
SA	18,718	STENOTAPHRUM SECUNDATUM	ST. AUGUSTINE GRASS	SOD		SQUARE FOOT	
MULCH							
	1,200		RED MULCH	MULCH		CUBIC YARDS	
PAVERS							
	7,980		CONCRETE PAVERS	PAVERS		SQUARE FOOT	

REVISIONS
DATE | DESCRIPTION

Coconut Creek
Butterfly Capital of the World

KS KEITH & SCHNARS
P.A. A DIVISION OF KCI
6300 N. Andrews Ave, Ft. Lauderdale, FL 33309-2132 (954)776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MICHAEL, R.L.A. #0001654
CERTIFICATE OF AUTHORIZATION #1337

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

PLANT SCHEDULE

SHEET NO.
LD-15

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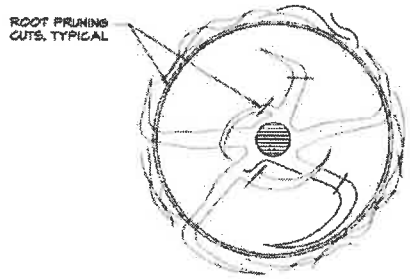
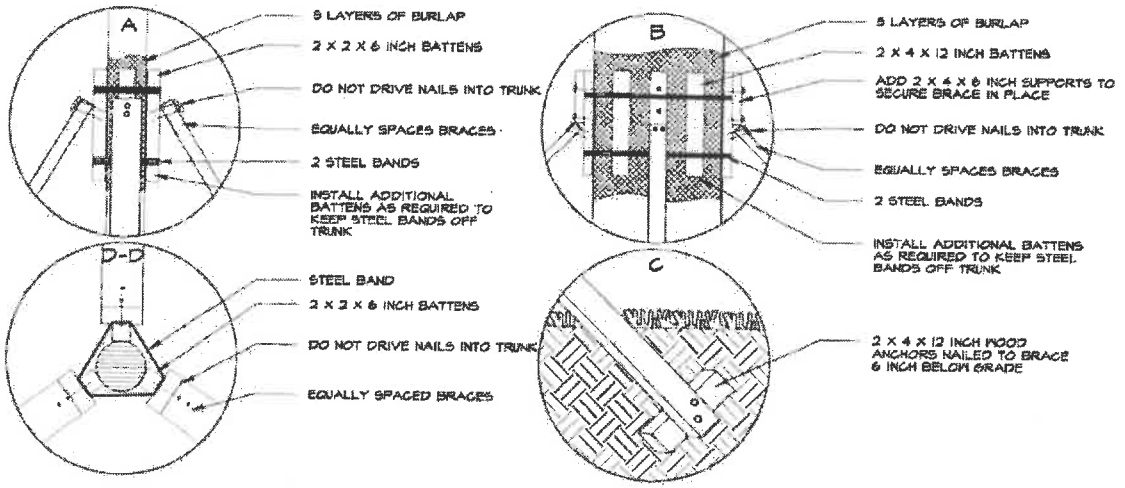
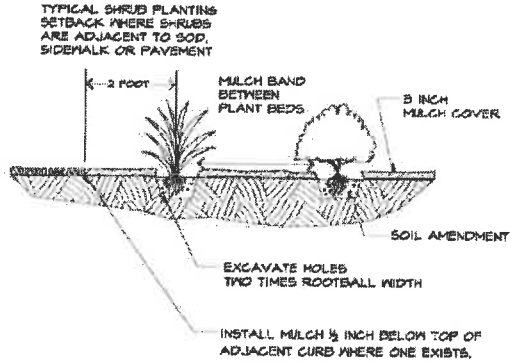
NOTE:
CUT CROSSING, DEFLECTING AND CIRCLING ROOTS BEFORE INSTALLATION. THIS MAY REQUIRE CUTTING ALL OF THE ROOTS AT THE ROOTBALL PERIMETER, RADIALLY PRUNING THE ROOTBALL TOP TO BOTTOM AND CUTTING INDIVIDUAL ROOTS.

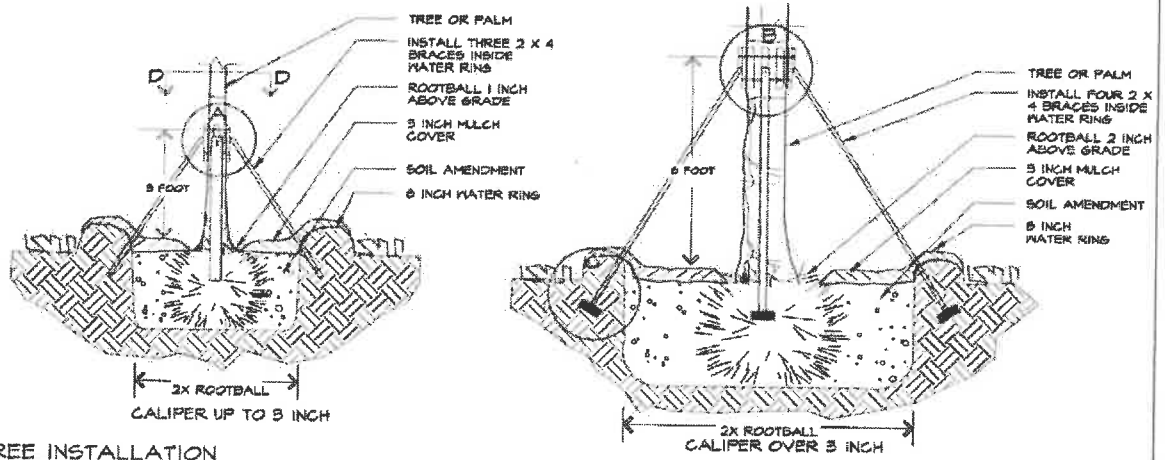


ROOT PRUNING REQUIREMENT





SHRUB INSTALLATION



TREE INSTALLATION

REVISIONS							
DATE	DESCRIPTION						

Coconut Creek
Butterfly Capital of the World

KS KEITH & SCHNARS
PA A DIVISION OF KCI
[illegible] Andrews Ave, Ft. Lauderdale, FL 33309-3132 (954) 776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MOHLER, FLA. 6001664
CERTIFICATE OF AUTHORIZATION #1337

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

LANDSCAPE DETAILS

SHEET NO.
LD-16

Consents
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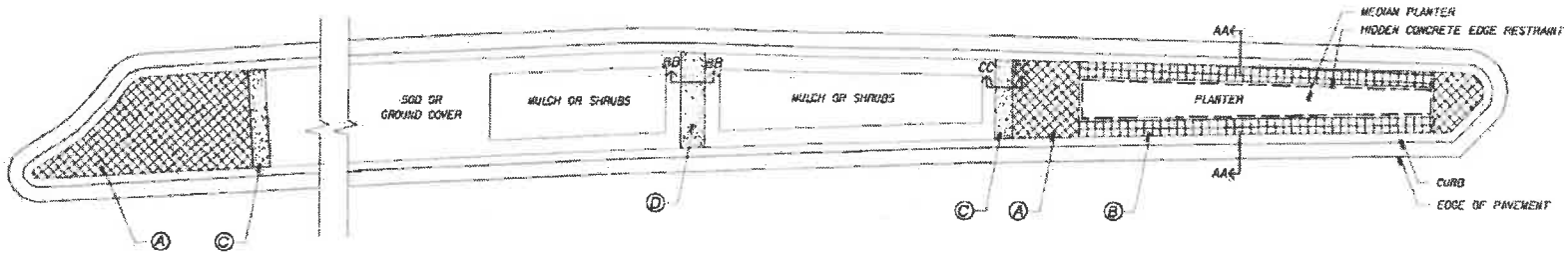


PAVER NOTES:

1) INSTALL ARCHITECTURAL PAVERS WITHIN FDOT RIGHT OF WAY PER CURRENT FDOT STANDARD SPECIFICATION 526.

2) CERTIFICATION:
BEFORE THE PRE-CONSTRUCTION MEETING, SUBMIT THE FOLLOWING CERTIFICATION:
A CERTIFIED CONCRETE PAVER INSTALLER, BY THE INTERLOCKING CONCRETE PAVING INSTITUTE.

3) ITEMIZED COSTS:
BEFORE THE PRE-CONSTRUCTION MEETING, SUBMIT A UNIT COST BREAKDOWN FOR EACH ITEM OF WORK.

4) SAMPLES:
BEFORE THE PRE-CONSTRUCTION MEETING, SUBMIT FOR REVIEW THE MANUFACTURERS PRODUCT SHEETS AND SAMPLES OF:
A) PAVERS
B) POLYMERIC JOINTING SAND
C) EDGE RESTRAINT

5) CONSTRUCT A SAMPLE LAYOUT AREA TO BE REVIEWED BY CITY AND/OR CITY REPRESENTATIVE. CITY AND/OR CITY REPRESENTATIVE HAVE THE RIGHT TO ADJUST PAVERS FOR CUTS AND LAYOUT.

6) LIMEROCK BASE COURSE APPROVAL
BEFORE INSTALLING THE SAND BEDDING COURSE, REQUEST APPROVAL OF THE LIMEROCK BASE COURSE. SURFACE TOLERANCE REQUIREMENT IS PLUS/MINUS 3/8 INCH OVER A 10 FOOT STRAIGHT EDGE.

7) SAND BEDDING COURSE:
CONFORM TO ASTM C 33, FREE OF ORGANIC MATERIALS, WITH 100 PERCENT PASSING THROUGH A 3/8 INCH SIEVE SIZE AND A MAXIMUM OF 1 PERCENT PASSING A NUMBER 200 SIEVE SIZE. (COMMONLY KNOWN AS MANUFACTURED CONCRETE SAND OR CONCRETE SCREENINGS).
DO NOT USE MASON SAND.

8) JOINTS:
MAXIMUM JOINT LINE TOLERANCE IS 1/2 INCH OVER 50 FEET.

9) PAVER COMPACTION:
VIBRATE PAVERS INTO THE SAND BEDDING COURSE USING A PLATE COMPACTOR WITH A RUBBER BASE CAPABLE OF 5000 POUNDS COMPACTION FORCE.

10) POLYMERIC JOINTING SAND:
APPLY DRY POLYMERIC JOINT SAND OVER DRY PAVERS PER MANUFACTURERS INSTRUCTIONS.

11) INSTALL HIDDEN CONCRETE RETAINER WHERE ADJACENT SIDEWALK/CURB DOES NOT EXIST

12) PRESSURE CLEAN ALL EXISTING CONCRETE SURFACES AFTER COMPLETION OF PAVER AND/OR PLANT MATERIAL INSTALLATION.

13) PROVIDE TWO (2) COATS OF WATER BASED SEALANT ON ALL CONCRETE PAVERS. SUBMIT SAMPLE OF SEALANT FOR APPROVAL BY CITY BEFORE INSTALLATION.

14) REPAIR AND/OR REPLACE ALL EXISTING CURBING AND/OR CONCRETE SURFACES DAMAGED DURING PAVER AND/OR PLANT MATERIAL INSTALLATION.

SPECIALTY PAVING TREATMENTS:

(A) FIELD OF 8"X8" PAVERS LAID ON A 45 DEGREE ANGLE TO THE NON-ANGLED ADJACENT CURB.

(B) DOUBLE ROW BAND OF 8"X8" PAVERS LAID PARALLEL TO THE ADJACENT CURB.

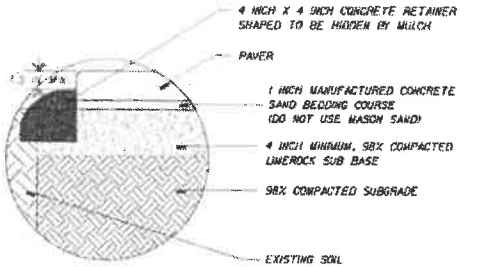
(C) 12 INCH WIDE X 8 INCH DEEP CONCRETE HEADER WITH BROOM FINISH

(D) 18 INCH WIDE X 8 INCH DEEP CONCRETE HEADER WITH BROOM FINISH

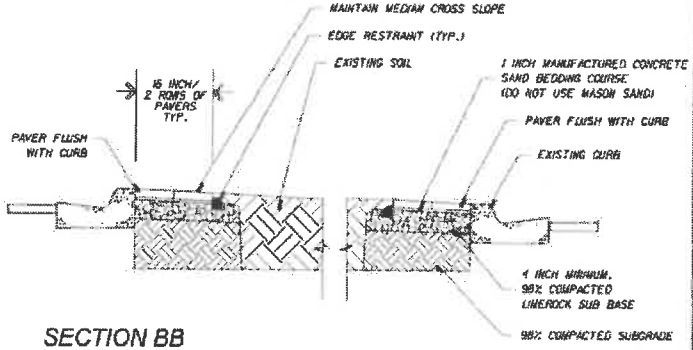
PAVER DESCRIPTION:

ACCEPTABLE MANUFACTURER: OLDCASTLE
TYPE: CONCRETE PAVERS
SIZE: 8 X 8 X 2 3/8 INCH
COLOR: CC441

PAVER INSTALLATION & EDGE RESTRAINT



SECTION AA



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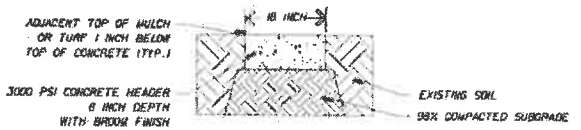

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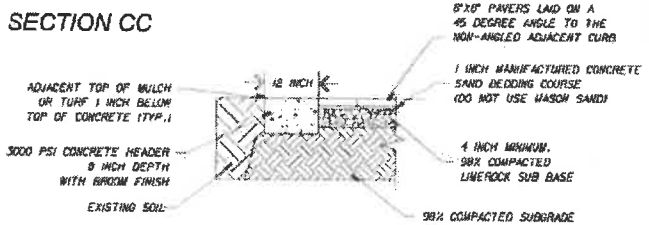

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REVISIONS	
DATE	DESCRIPTION

COCONUT CREEK
BUTTERFLY CAPITAL OF THE WORLD

KS KEITH & SCHNARS
A DIVISION OF KCI
8280 N. Andrews Ave, Ft. Lauderdale, FL 33309-2132 (954)776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MOHR, ER. FLA. #0001494
CERTIFICATE OF AUTHORIZATION # LC26

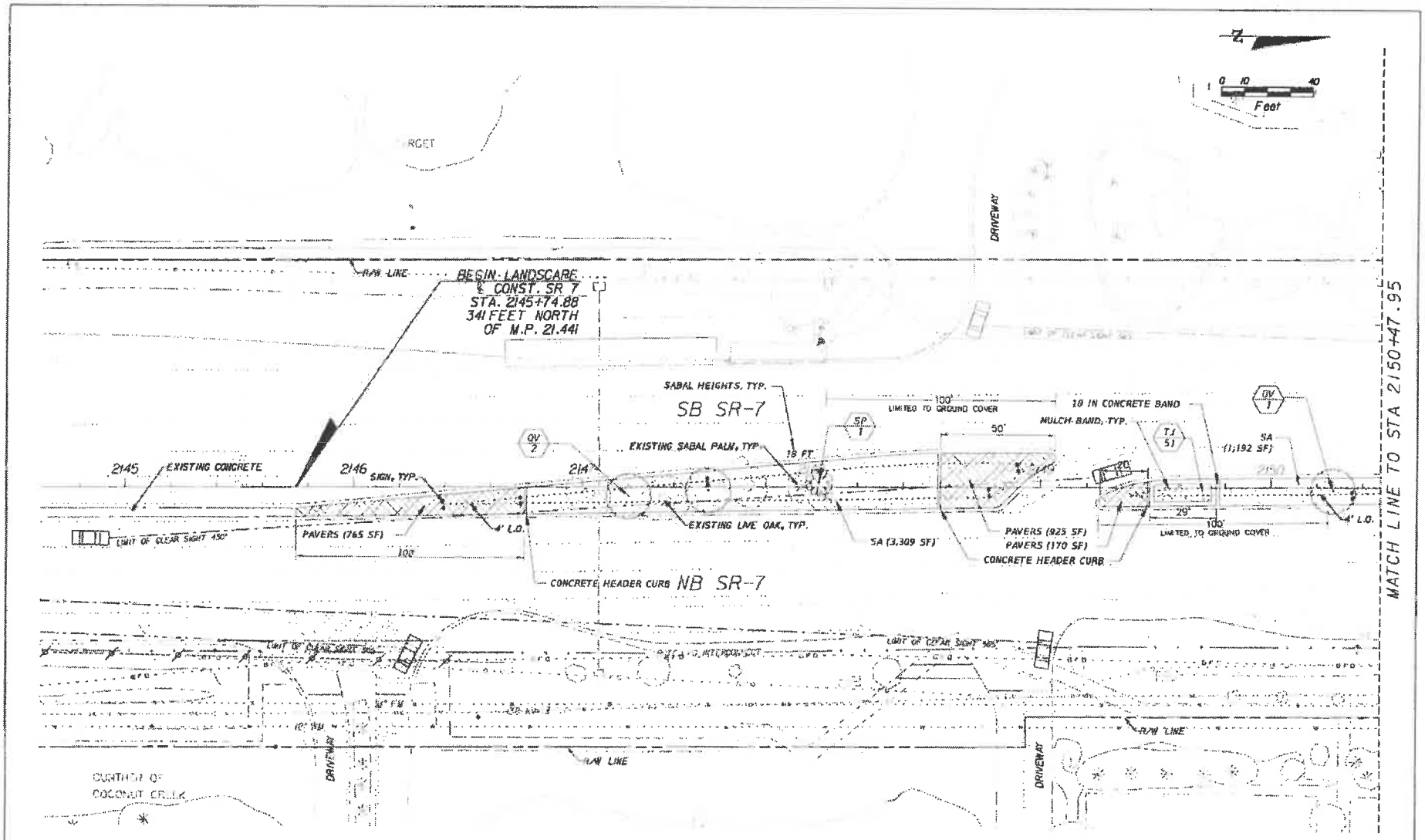
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

HARDSCAPE DETAILS

SHEET NO. LD-17

6/12/2018



REVISIONS	
DATE	DESCRIPTION

Coconut Creek
Butterfly Capital of the World®

KS KEITH & SCHNARS
P.A. A DIVISION OF KCI
3500 N. Andrews Ave., Ft. Lauderdale, FL 33309-2132 (954)776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MOHLER, FLA. 6008504
CERTIFICATE OF AUTHORIZATION #1227

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

LANDSCAPE PLAN

SHEET NO.
LD-18

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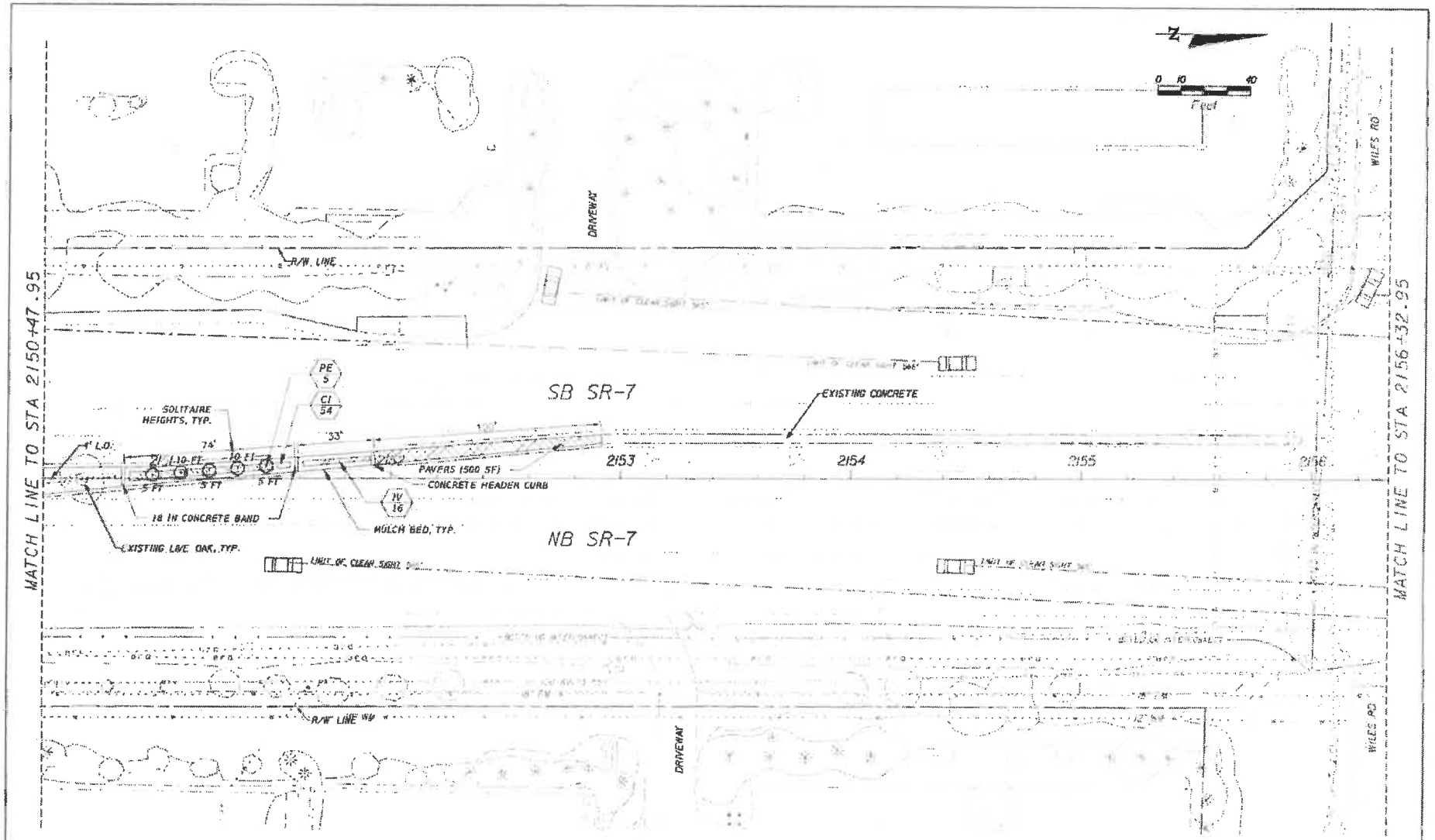

REVISIONS	
DATE	DESCRIPTION

Coconut Creek
Butterfly Capital of the World

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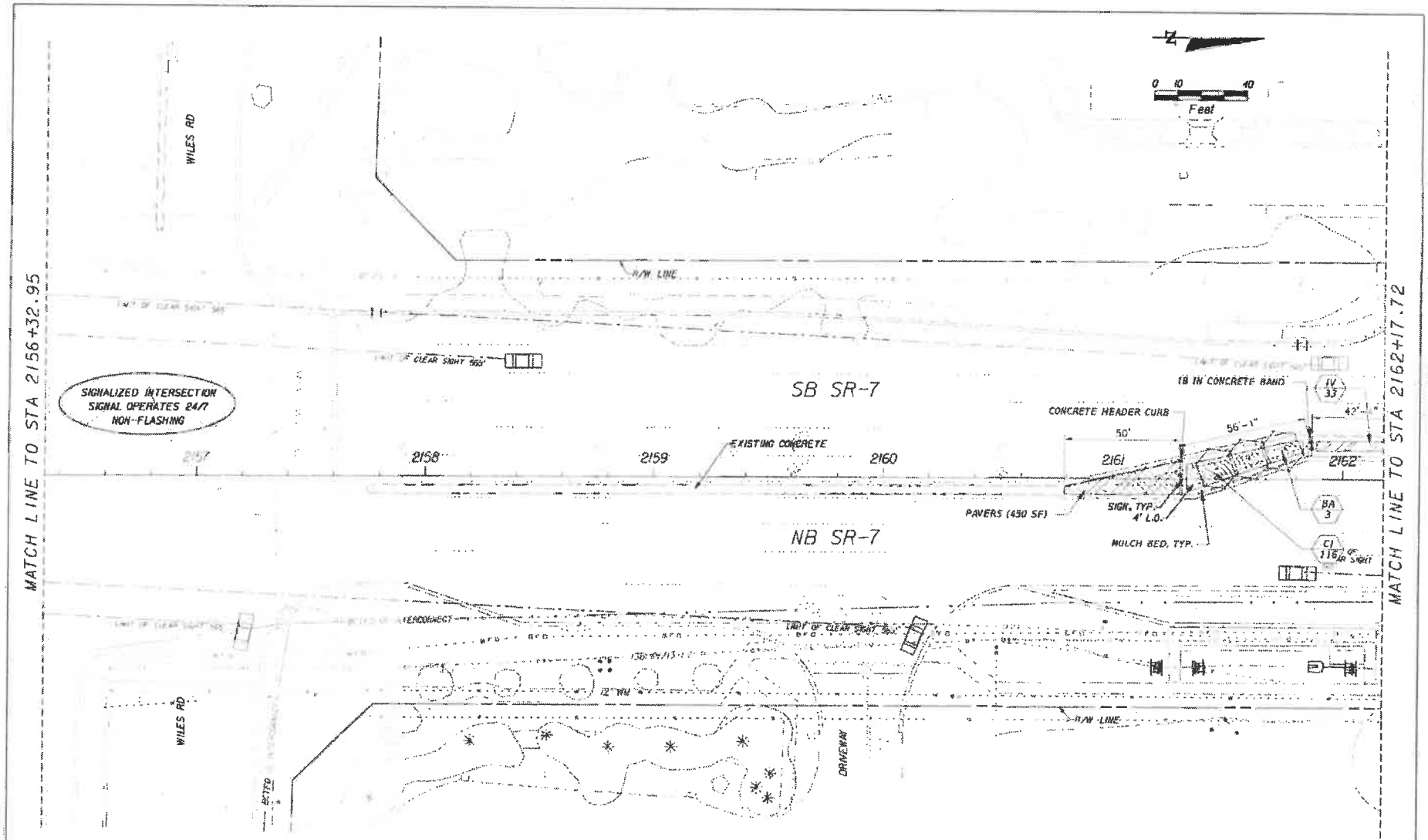
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				
DIST. NO.	CITY OF	FINANCIAL PROJECT ID	LANDSCAPE PLAN	SHEET NO.
7	COCONUT CREEK	#44935-1-74-01		LD-19



REVISIONS

DATE	DESCRIPTION

Coconut Creek
Butterfly Capital of the World

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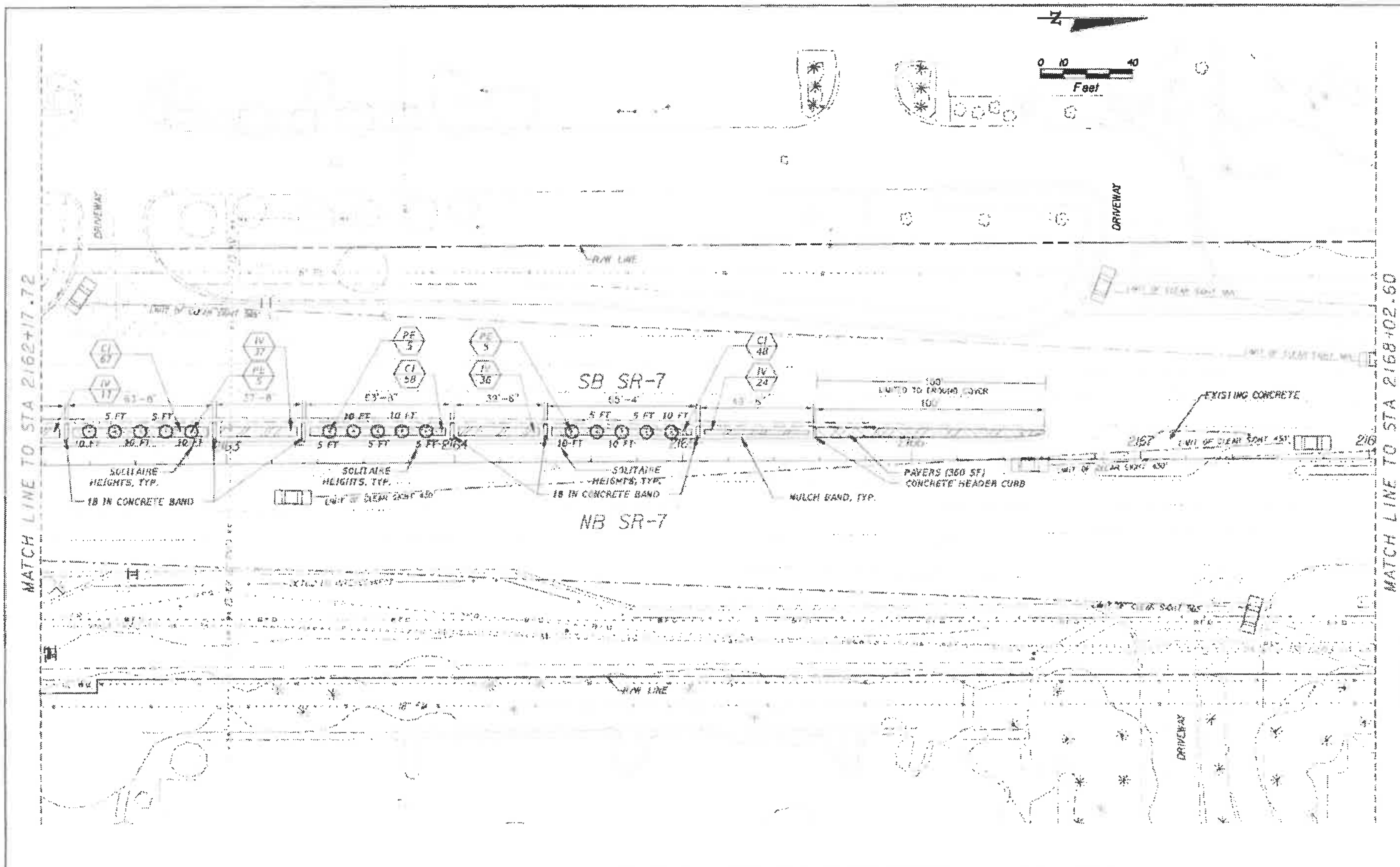
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

LANDSCAPE PLAN

SHEET NO. LD-20



REVISIONS			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET NO.
DATE	DESCRIPTION		ROAD NO.	CITY OF	FINANCIAL PROJECT ID	LANDSCAPE PLAN	LD-21
			7	COCONUT CREEK	444935-1-74-01		

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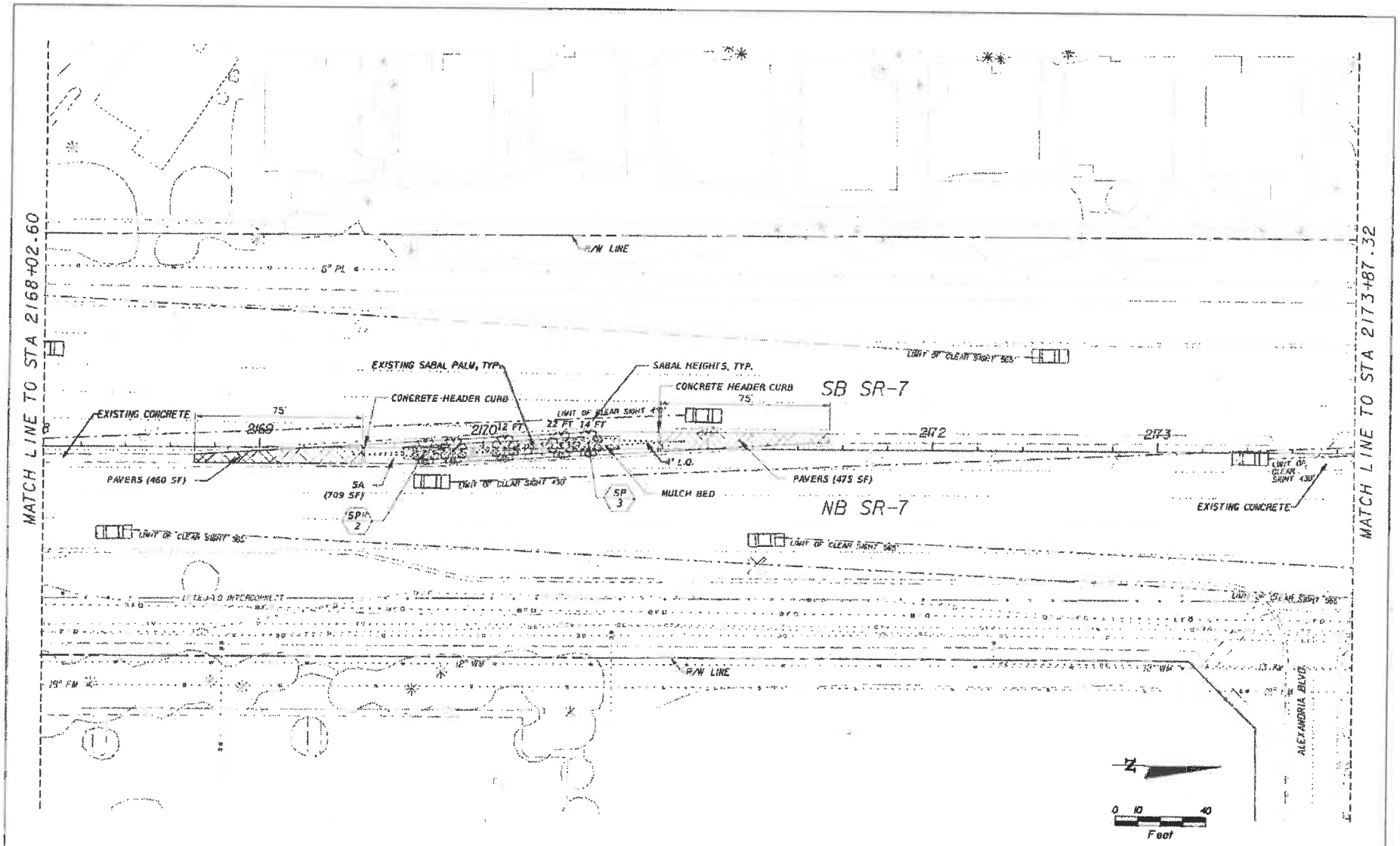

REVISIONS		
DATE	DESCRIPTION	

Coconut Creek
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KS KEITH & SCHNARS
P.A. A DIVISION OF KCI
0600 N. Andrews Ave., Ft. Lauderdale, FL. 33309-2132 (954)776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD HORNISH, FLA. #0001284
CERTIFICATE OF AUTHORIZATION #1121

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

LANDSCAPE PLAN

SHEET NO.
LD-22

Microfilm
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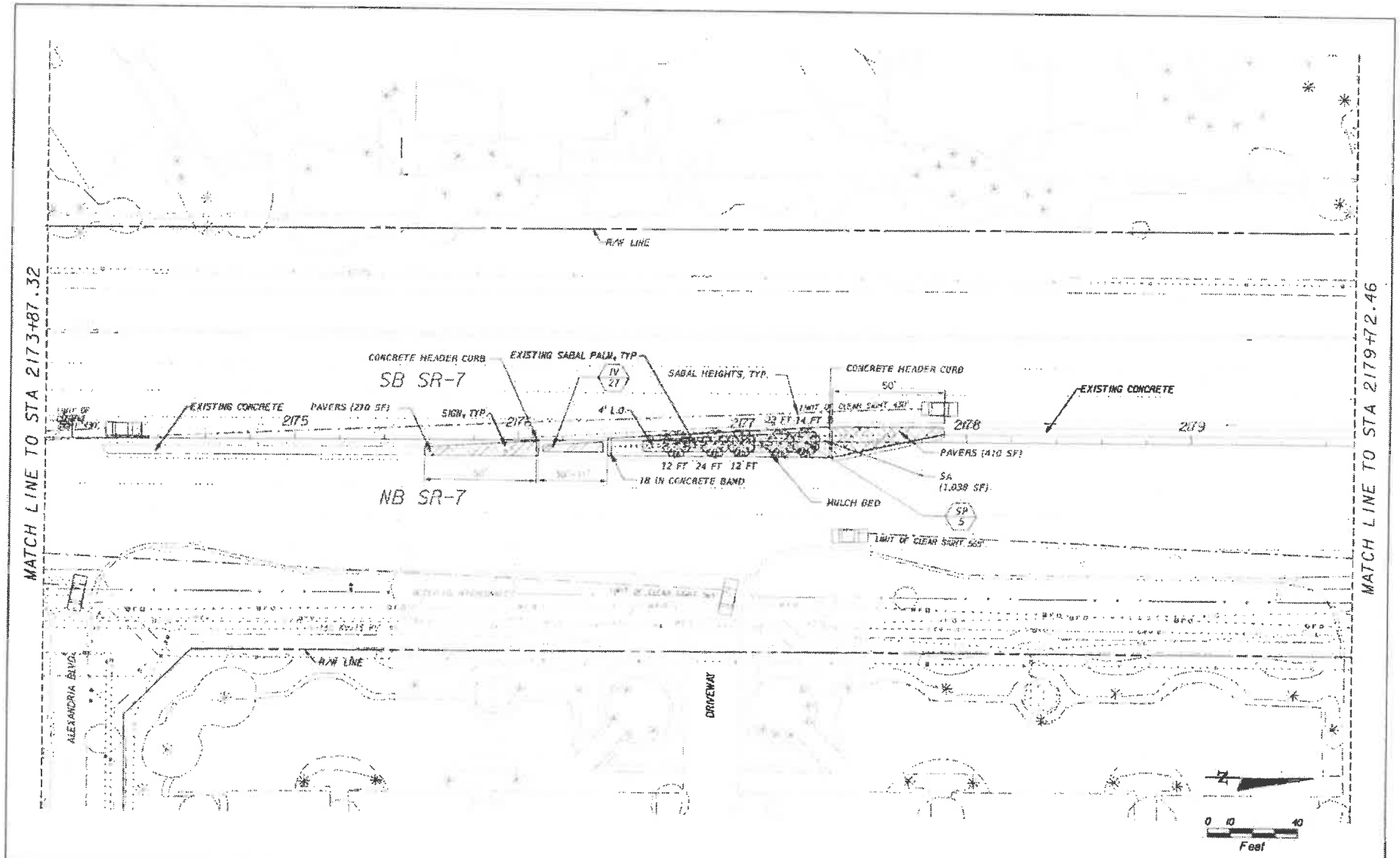

REVISIONS

DATE	DESCRIPTION

COCONUT CREEK
BUTTERFLY CAPITAL OF THE WORLD

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A DIVISION OF KCI
LANDSCAPE ARCHITECT OF RECORD: TODD MOHLER, R.L.A. #0001594
CERTIFICATE OF AUTHORIZATION #1397

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

LANDSCAPE PLAN

SHEET NO. LD-23

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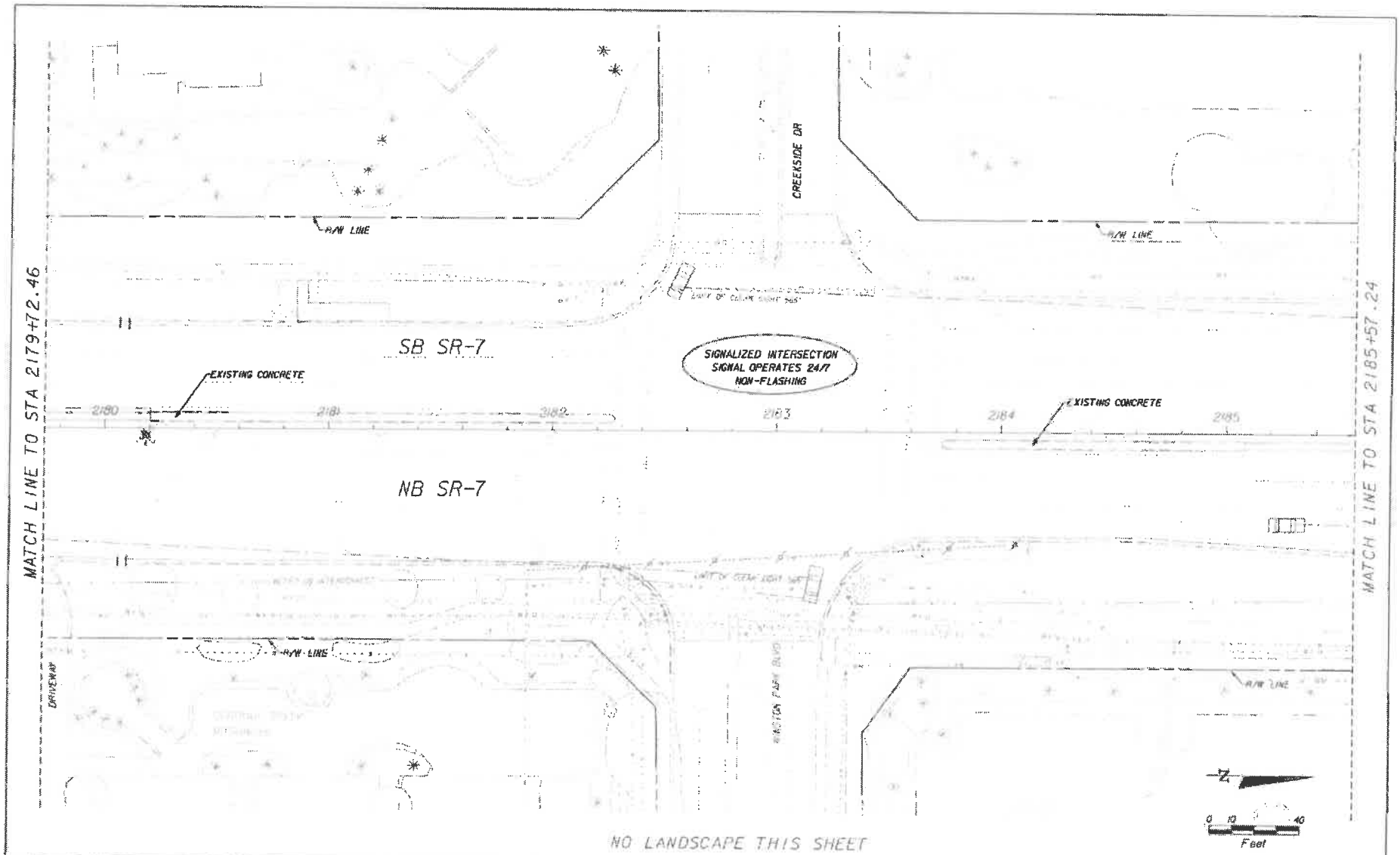

REVISIONS

DATE	DESCRIPTION

Coconut Creek
Butterfly Capital of the World

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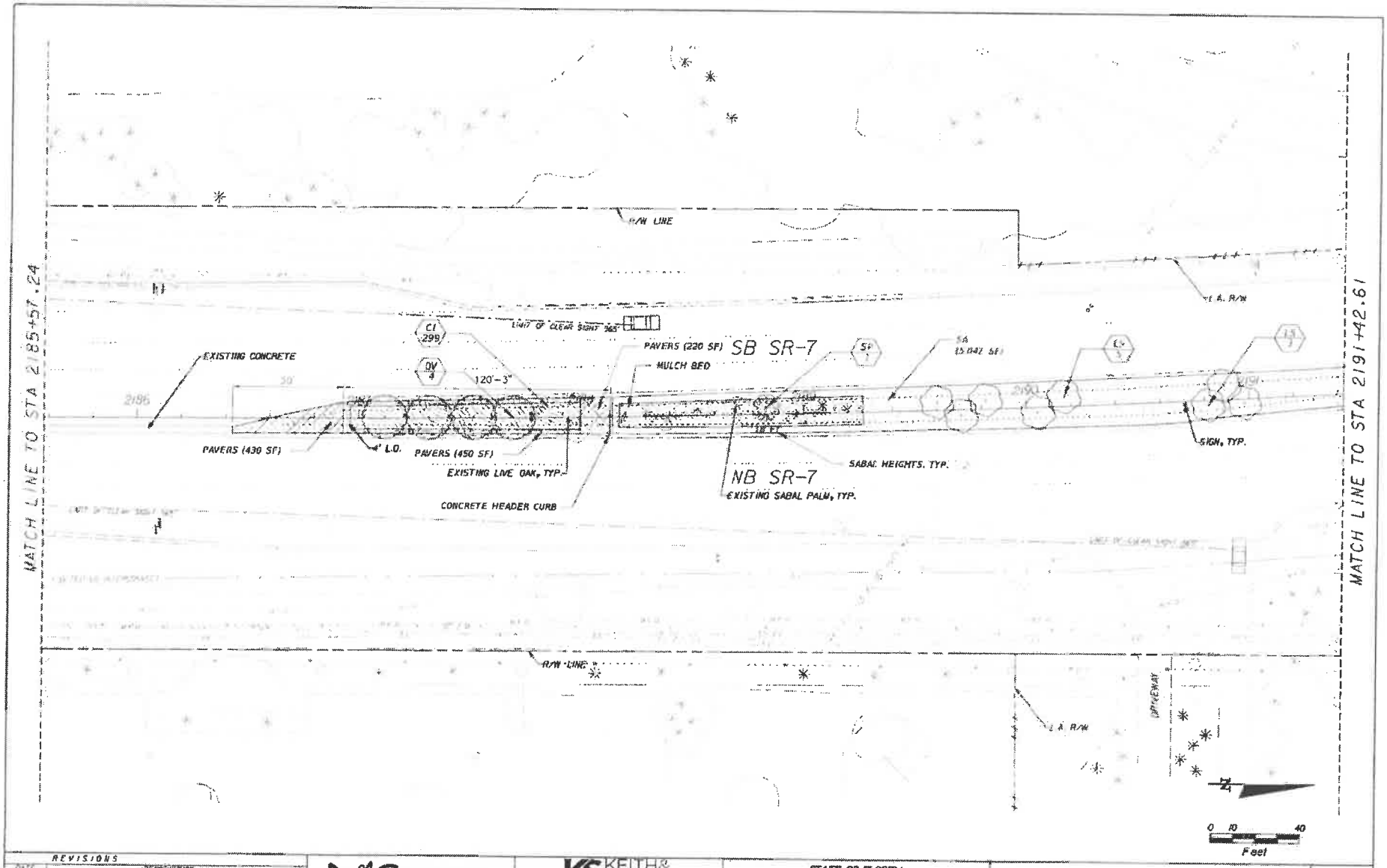
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

LANDSCAPE PLAN

SHEET NO.
LD-24



REVISIONS

DATE	DESCRIPTION

Coconut Creek
Butterfly Capital of the World

KS KEITH & SCHNARS
A DIVISION OF KCI
6200 N. Andrews Ave. Ft. Lauderdale, FL 33309-2132 (954)776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MOWER, FLA. #0001884
CERTIFICATE OF AUTHORIZATION #1337

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

LANDSCAPE PLAN

SHEET NO.
LD-25

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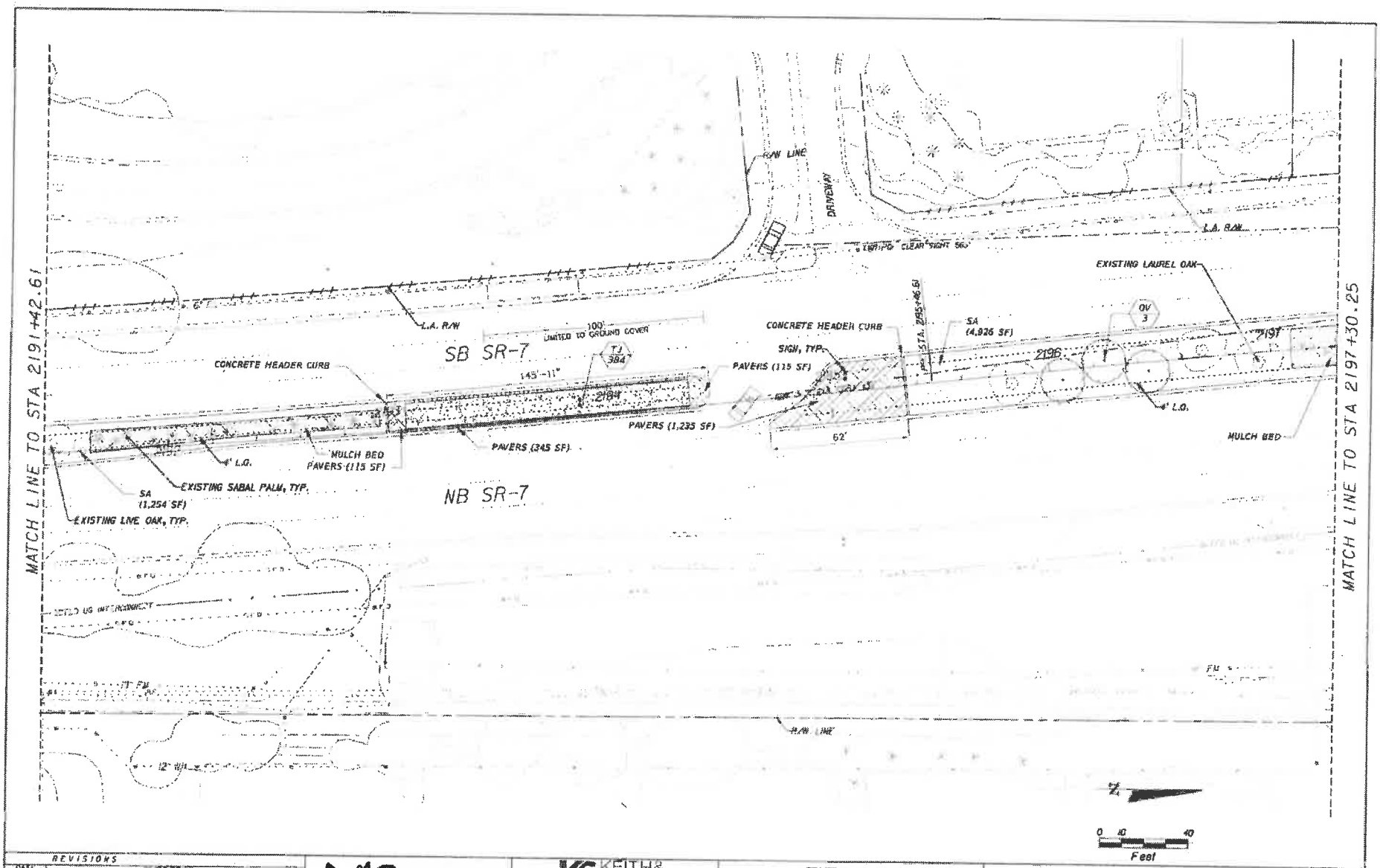

REVISIONS	
DATE	DESCRIPTION

Coconut Creek
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

LANDSCAPE PLAN

SHEET NO. LD-26

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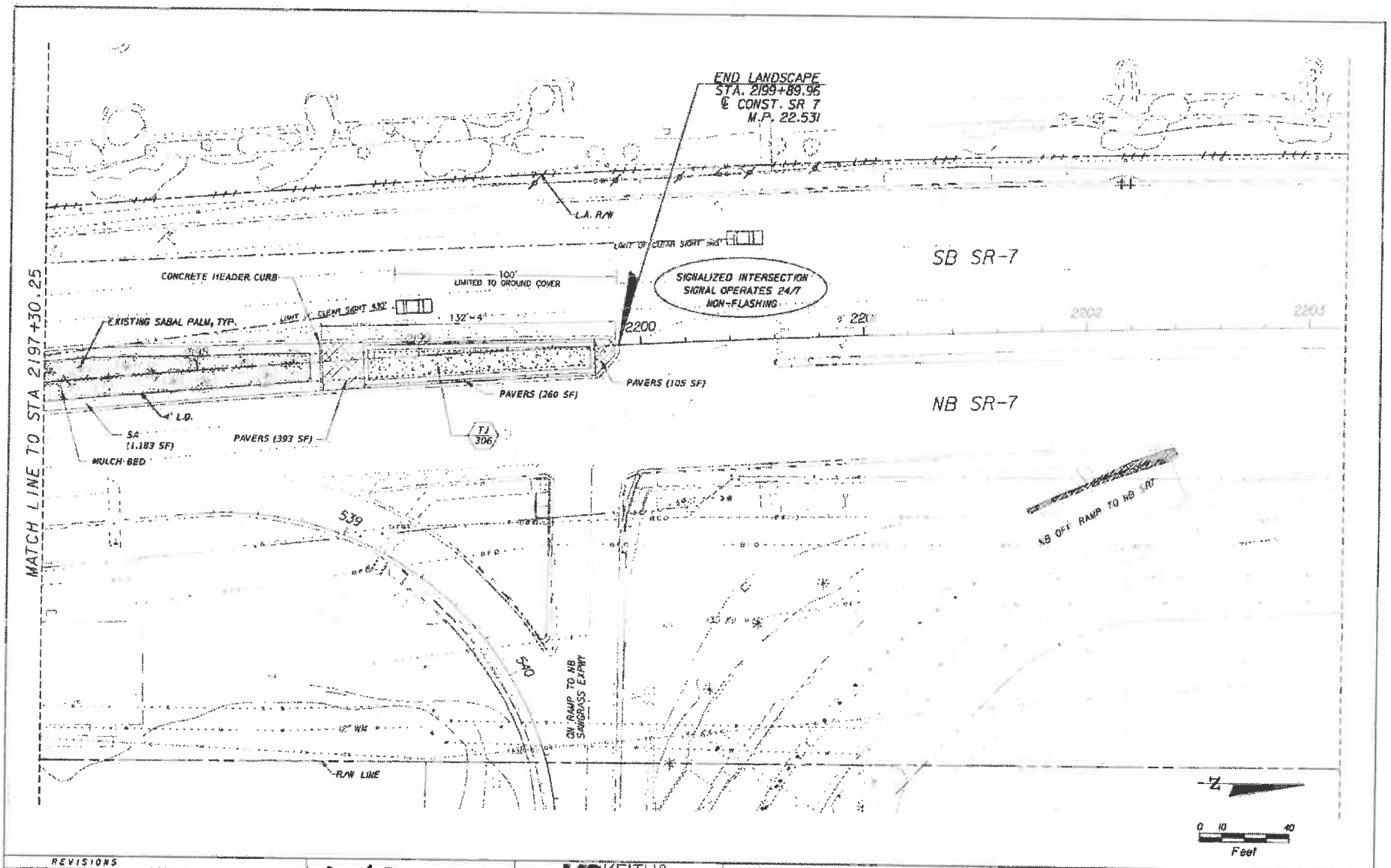

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Coconut Creek
Butterfly Capital of the World

KS KEITH & SCHNARS
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1000 N. Andrews Ave., Ft. Lauderdale, FL 33309-2132 954-(371)-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MOHLER, FLA. #0001594
CERTIFICATE OF AUTHORIZATION #1317

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

LANDSCAPE PLAN

SHEET NO.
LD-27

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IRRIGATION NOTES

1) DESCRIPTION: THIS IS A NEW IRRIGATION SYSTEM AND PUMP STATION.

2) SUBMITTALS: NOT LESS THAN 14 DAYS BEFORE THE PRECONSTRUCTION MEETING, SUBMIT:
- A. SCHEDULE OF VALUES FOR EACH ITEM OF WORK.
- B. IRRIGATION CONTRACTOR CERTIFICATION BY THE IRRIGATION ASSOCIATION (IA).
- C. SHOP DRAWINGS/ MANUFACTURERS PRODUCT SHEETS FOR EACH ITEM

3) INSTALLATION: AN IA CERTIFIED IRRIGATION CONTRACTOR SHALL BE ON SITE TO DIRECT IRRIGATION OPERATIONS.

4) LAYOUT APPROVAL: MARK EQUIPMENT LOCATIONS BEFORE INSTALLATION. NOTIFY THE CITY WHEN COMPLETE, ADJUST FINAL LOCATIONS WHEN DIRECTED.

5) COORDINATE PHONE SERVICE CONNECTION WITH THE PHONE SERVICE PROVIDER.
AT&T: DINO FARRUGGIO 561-907-2340 DF1979@ATT.COM

COORDINATE ELECTRICAL SERVICE CONNECTION WITH THE ELECTRICAL PROVIDER.
FPL DISTRIBUTION: CHARLIE LEIKAUF 954-956-2032 CHARLIE.LEIKAUF@FPL.COM

PERFORM ELECTRICAL SERVICE CONNECTIONS BY A LICENSED ELECTRICIAN.

6) AS-BUILT PLANS: PREPARE AS-BUILT PLANS AS THE WORK PROGRESSES, INDICATING THE ACTUAL LOCATION OF EQUIPMENT. KEEP THE AS-BUILT PLAN SET ON SITE DURING CONSTRUCTION. SUBMIT FINAL AS-BUILT TO THE LANDSCAPE ARCHITECT.

7) TRENCHING AND PIPE INSTALLATION.
- A. TUNNEL UNDER EXISTING TREE ROOTS OVER 1 INCH DIAMETER.
- B. PERFORM DIRECTIONAL BORING WHEN REQUIRED.
- C. REQUEST APPROVAL OF THE MAINLINE INSTALLATION BEFORE BACKFILLING.
- D. BACKFILL TRENCHES AND COMPACT TO FINISHED GRADE WITH EXISTING SOILS FREE OF ROCKS OR OBJECTS THAT COULD DAMAGE THE PIPE.
- E. MAKE PVC SOLVENT WELD CONNECTIONS IN ACCORDANCE WITH ASTM D2855.
- F. APPLY PURPLE COLORED PVC PRIMER IN ACCORDANCE WITH ASTM F656. APPLY PVC CEMENT IN ACCORDANCE WITH ASTM D2564.

8) MAINLINE LEAK TEST
- A. NOTIFICATION IS REQUIRED BEFORE TESTING.
- B. PERFORM MAINLINE LEAK TEST AT 100 PSI FOR 2 HOURS.
- C. PROVIDE AND OPERATE TEST EQUIPMENT.
- D. BEFORE TESTING, THE MAINLINE MUST BE COMPLETE. NO CUTTING OR MODIFICATIONS ALLOWED AFTER SUCCESSFUL COMPLETION OF THE LEAK TEST.
- E. BEFORE TESTING, ISOLATE THE MAINLINE, FILL WITH WATER, AND PRESSURIZE TO THE TEST PRESSURE FOR 24 HOURS TO REMOVE AIR FROM THE MAINLINE AND CORRECT LEAKS.
- F. ALLOWABLE MAKEUP WATER DURING TEST FOR GASKETED MAINLINE IS: $GAL = SD\sqrt{P}/133,200$ WHERE S = LENGTH OF PIPE TESTED, D = NOMINAL DIAMETER OF THE PIPE IN INCHES AND P = AVERAGE TEST PRESSURE DURING THE LEAKAGE TEST, IN POUNDS PER SQUARE INCH GAUGE.
- G. NO LEAKAGE ALLOWED IN SOLVENT WELD MAINLINES.

9) IRRIGATION HEAD PRESSURE TEST:
- A. NOTIFICATION IS REQUIRED BEFORE TESTING.
- B. PERFORM PRESSURE TEST ON EACH ZONE AT THE FIRST AND LAST IRRIGATION HEADS. PRESSURE REQUIREMENTS ARE PLUS OR MINUS 10 PERCENT OF THE DESIGN OPERATING PRESSURE.

10) ADJUST HEAD HEIGHT, ARC, AND RADIUS SETTINGS TO PREVENT OVERSPRAY.

11) VALVE SEQUENCING: RUN VALVES DESIGNATED WITH LETTERS SIMULTANEOUSLY PER NUMBER, (EX: 1A AND 1B RUN SIMULTANEOUSLY) ACHIEVE THIS SEQUENCING THROUGH MAXICOM CONTROL SYSTEM. COORDINATE WITH CITY.

12) SYSTEM OPERATION: PROVIDE SYSTEM LAYOUT AND OPERATION WALKTHROUGH TRAINING FOR MAINTENANCE PERSONNEL.

13) CITY OF COCONUT CREEK CONTACT: JOHN TETTERIS 954-545-8812

IRRIGATION SYMBOL KEY

SYMBOL	DESCRIPTION
5 FT Q H F; 8 FT Q T H F; 10 FT Q T H F; STRIP EBS LCS RCS CST SST	12 INCH POP UP SPRAY HEAD, PRESSURE REGULATED, MATCHED PRECIPITATION RATE NOZZLES AS INDICATED.
8 FT Q T H F; 10 FT Q T H F; 12 FT Q T H TQ F; 15 FT Q T H TQ F; VAN VF VH VHF; STRIP EBS LCS RCS CST SST	6 INCH POP UP SPRAY HEAD, PRESSURE REGULATED, MATCHED PRECIPITATION RATE NOZZLES AS INDICATED.
0.50	BUBBLER ASSEMBLY (WITH GPM FLOW RATE INDICATED)
1.0	INSTALL (2) 0.25 GPM BUBBLERS FOR 0.50 GPM FLOW RATE INSTALL (2) 0.50 GPM BUBBLERS FOR 1.0 GPM FLOW RATE
	REMOTE CONTROL VALVE
	AIR VACUUM RELEASE VALVE
	MAINLINE ISOLATION VALVE
	PUMP STATION / WELL / CONTROLLER
	IRRIGATION LATERAL LINE
	IRRIGATION MAINLINE
	DIRECTIONAL BORE
	SLEEVE
	VALVE CALLOUT; VALVE NUMBER; VALVE FLOW; VALVE SIZE

IRRIGATION TABULATION OF QUANTITIES

ITEM	SPECIFICATION	UNIT	QUANTITY
ELECTRIC POWER DROP	SEE ELECTRICAL PLANS	EA	1
PHONELINE	PHONE LINE FOR RAIN BIRD MAXICOM	EA	1
PUMP	HOOVER PUMP STATION MODEL HCF 60SV 230/3 D.W. 6-24 2	EA	1
ZONE CONTROL VALVE	RAINBIRD PESB	EA	19
MAINLINE ISOLATION VALVE	3 FEMCO LMV-3378	EA	5
AIR VACUUM RELEASE VALVE	DERMAD C11 COMBINATION AIR VALVE (2 INCH) IR-2IN C11-SP P-D-NM-T	EA	2
VALVE BOX	OLD CASTLE TIER 8 RATED FIBERLYTE FL36 17 X 30 X 12 INCH DEEP	EA	29
PULL BOX	OLD CASTLE TIER 8 RATED FIBERLYTE FL12 12 X 19 X 12 INCH DEEP	EA	2
VALVE BOX IDENTIFICATION	ALUMINUM NUMBERS / LETTERS	EA	49
PIPE TIE NIPPLES	PVC SCHEDULE 80	EA	61
FILTER WORK	BELOW VALVE BOXES PER DETAIL	CY	116
FILTER FABRIC	BELOW VALVE BOXES PER DETAIL	SY	406
MAINLINE	PVC CLASS 200 GASKETED - 3 INCH	LF	1,500
MAINLINE FITTINGS	3 FEMCO DUCTILE IRON WITH INTEGRAL JOINT RESTRAINTS AT DIRECTION CHANGES	EA	75
HDPE TO PVC TRANSITION FITTING	3 INCH POLYCAM SERIES 730 FOR HDPE/PVC IPS SCH 40	EA	14
MAINLINE LOCATION TAPE	2 INCH DETECTABLE WARNING TAPE	LF	1,500
CONTROL WIRE CONDUIT	2 INCH PVC SCHEDULE 40, GREY	LF	1,500
CONTROL WIRE COMMON	15 AWG, COPPER, TYPE UF, 82 TH-HATH-HW COMMON WIRE	LF	1,700
CONTROL WIRE	12 AWG, COPPER, TYPE UF, 83 TH-HATHWN HOT WIRES	LF	43,900
	INSTALL RED COLOR FOR HOT WIRES		
	INSTALL BLUE COLOR FOR SPARE WIRES		
	INSTALL WHITE COLOR FOR COMMON WIRE		
WIRE CONNECTORS	3M-DBRY-B KITS	EA	38
LATERAL LINE / FITTINGS	3/4 INCH MINIMUM TO 3 INCH PVC SCH. 40 W/ PVC SCH. 40 SOLVENT WELD FITTINGS	LF	7,150
PIPE CROSSING	DIRECTIONAL BORE - 2 - 3 INCH HDPE IPS DR11 4710	LF	1,200
SPRAY HEADS	RAINBIRD 1806-PRS WITH MPR NOZZLES	EA	212
	RAINBIRD 1812-PRS WITH MPR NOZZLES OR RISERS	EA	132
BUBBLERS	RAINBIRD 1401 SERIES 0.25 GPM PRESSURE COMPENSATING	EA	86
	RAINBIRD 1402 SERIES 0.50 GPM PRESSURE COMPENSATING	EA	46

VALVE SCHEDULE

VALVE NUMBER	MAXICOM SEQUENCE	SIZE	TYPE	GPM
1A	1	1-1/2"	Turf Spray	36.91
1B	1	1"	Turf Spray	32.2
2	2	1-1/2"	Turf Spray	42.02
3A	3	1"	Shrub Spray	12.83
3B	3	1"	Shrub Spray	19.05
4A	4	1"	Shrub Spray	13.64
4B	4	1"	Shrub Spray	15.48
5A	5	1-1/2"	Shrub Spray	41.17
5B	5	1"	Shrub Spray	2.43
6	6	1-1/2"	Turf Spray	55.4
7	7	1-1/2"	Turf Spray	55.49
8	8	1-1/2"	Turf Spray	58.24
9	9	1-1/2"	Turf Spray	60.31
10A	10	1"	Bubbler	5.25
10B	10	1"	Bubbler	10.5
10C	10	1"	Bubbler	2.5
10D	10	1"	Bubbler	2.5
10E	10	1"	Bubbler	12.5
10F	10	1"	Bubbler	3

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DATE	DESCRIPTION	

Coconut Creek — Butterfly Capital of the World®

KS KEITH & SCHNARS — P.A. A DIVISION OF KCI
6500 N. Andrews Ave., Ft. Lauderdale, FL 33309-2132 (954)776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MOWERY, FLA. 0001864
CERTIFICATE OF AUTHORIZATION # 1332

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

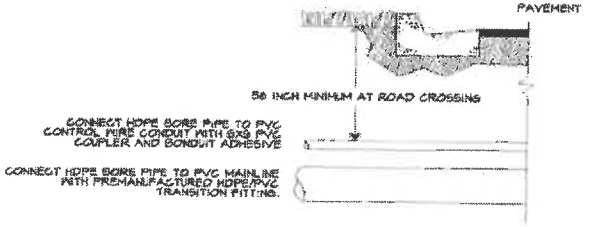
IRRIGATION NOTES & IRRIGATION SCHEDULE

SHEET NO. LD-28

4/16/2009 10:09:56 AM J:\Projects\1-WORK-04 SR 7 MRC Crest Plaza\CAD\Landscape\PLANS.DGN

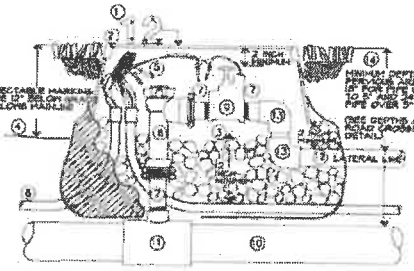
① INSTALL HDPE DR-11 UNDER ROADWAYS AND OTHER IMPERVIOUS AREAS

② ROAD TRENCHING ONLY PERMITTED WITH WRITTEN APPROVAL. ROAD TRENCHING REQUIRES BACKFILLING WITH FLOWABLE FILL



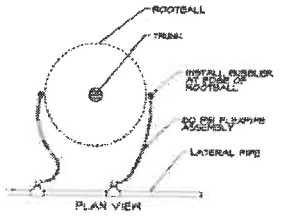
ROAD CROSSING

① ALUMINUM VALVE IDENTIFICATION NUMBER, SCREWED IN PLACE
② VALVE BOX
③ VALVE SUMP; 12 INCHES DEEP FILLED WITH ST GRAVEL AND WRAPPED IN FILTER FABRIC
④ DETECTABLE MARKING TAPE
⑤ CONTROL WIRE AND WIRE CONNECTORS
⑥ CONTROL WIRE CONDUIT
⑦ SCHEDULE 80 PVC TOE NIPPLE INSTALL NO MALE ADAPTERS
⑧ RIGHT ANGLE GATE VALVE
⑨ ELECTRIC CONTROL VALVE

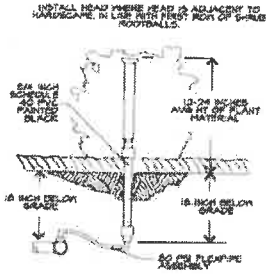


⑩ MAINLINE PIPE
⑪ MAINLINE FITTINGS
⑫ LATERAL LINE PIPE; PVC SCHEDULE 40 INSTALL LABELS FACING UP
⑬ LATERAL LINE FITTINGS; PVC SCHEDULE 40
⑭ PIPE DEPTH REQUIREMENTS

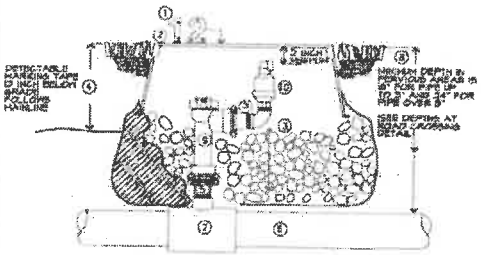
REMOTE CONTROL VALVE



TREE BUBBLER

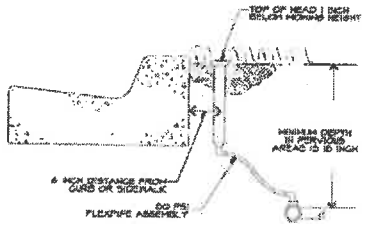


IRRIGATION HEAD IN PLANT BED



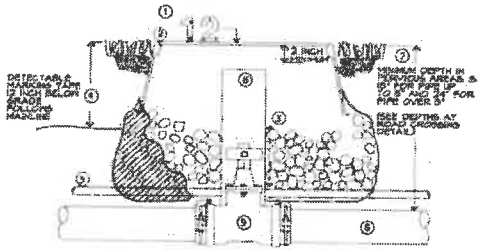
① ALUMINUM VALVE IDENTIFICATION NUMBER, SCREWED IN PLACE
② VALVE BOX
③ VALVE SUMP; 12 INCHES DEEP FILLED WITH ST GRAVEL AND WRAPPED IN FILTER FABRIC
④ DETECTABLE MARKING TAPE;
⑤ SCHEDULE 80 PVC TOE NIPPLE INSTALL NO MALE ADAPTERS
⑥ MAINLINE PIPE
⑦ MAINLINE FITTINGS
⑧ PIPE DEPTH REQUIREMENTS
⑨ RIGHT ANGLE VALVE
⑩ AIR / VACUUM RELEASE VALVE

AIR/VACUUM RELEASE VALVE



IRRIGATION HEAD IN TURF

① ALUMINUM VALVE IDENTIFICATION NUMBER, SCREWED IN PLACE
② VALVE BOX
③ VALVE SUMP; 12 INCH DEEP FILLED WITH ST ROCK AND WRAPPED IN FILTER FABRIC
④ DETECTABLE MARKING TAPE;
⑤ CONTROL WIRE CONDUIT
⑥ MAINLINE PIPE
⑦ PIPE DEPTH REQUIREMENTS
⑧ PVC ACCESS TUBE
⑨ ISOLATION VALVE



MAINLINE ISOLATION VALVE

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Coconut Creek
BUTTERFLY CAPITAL OF THE WORLD

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8520 W. Sunrise Blvd, Ft. Lauderdale, FL 33322 (954) 916-1202
LANDSCAPE ARCHITECT OF RECORD: TODD MOWERY, RLA #0001044
CERTIFICATE OF AUTHORIZATION #1221

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

IRRIGATION DETAILS

SHEET NO. LD-29

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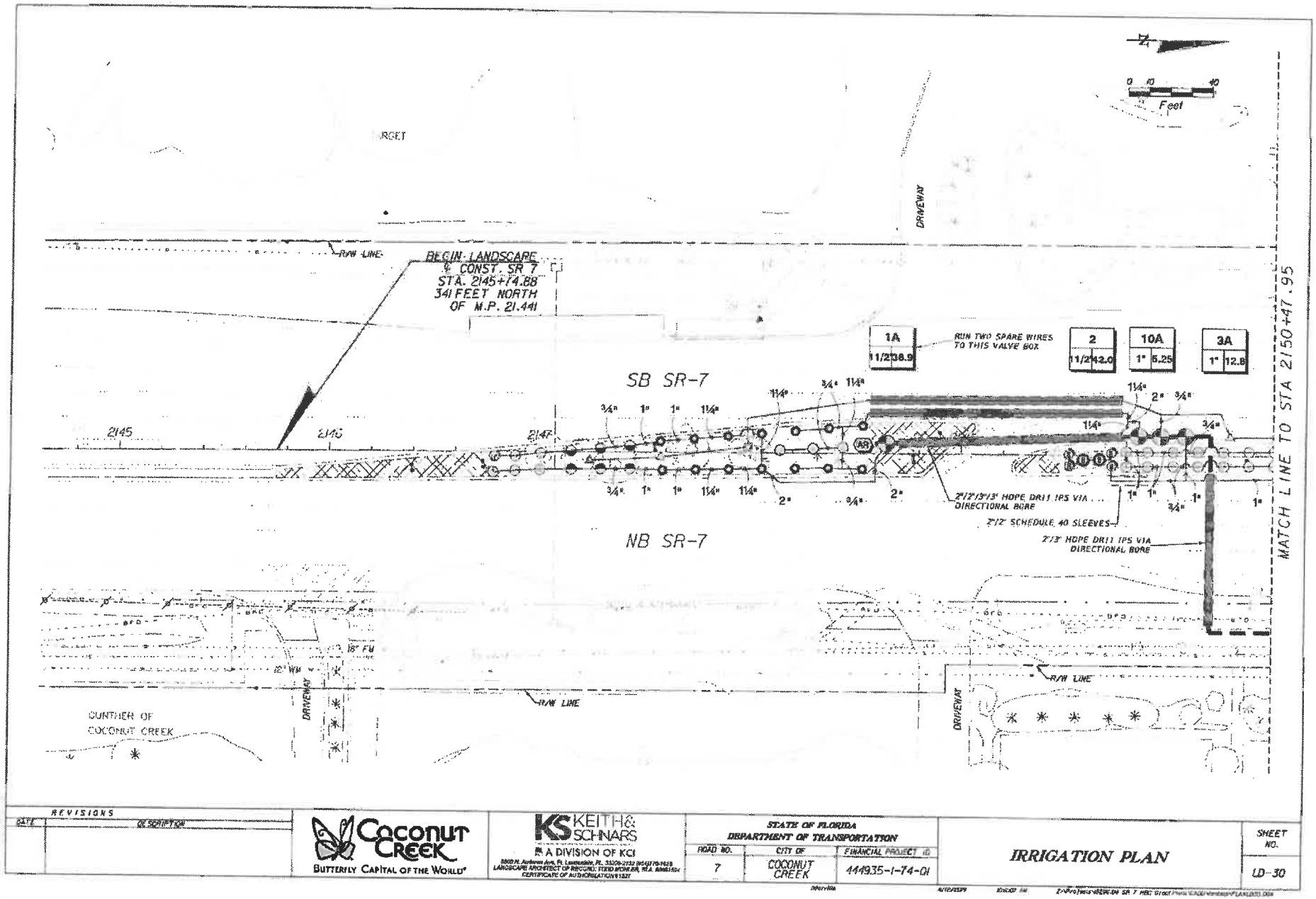

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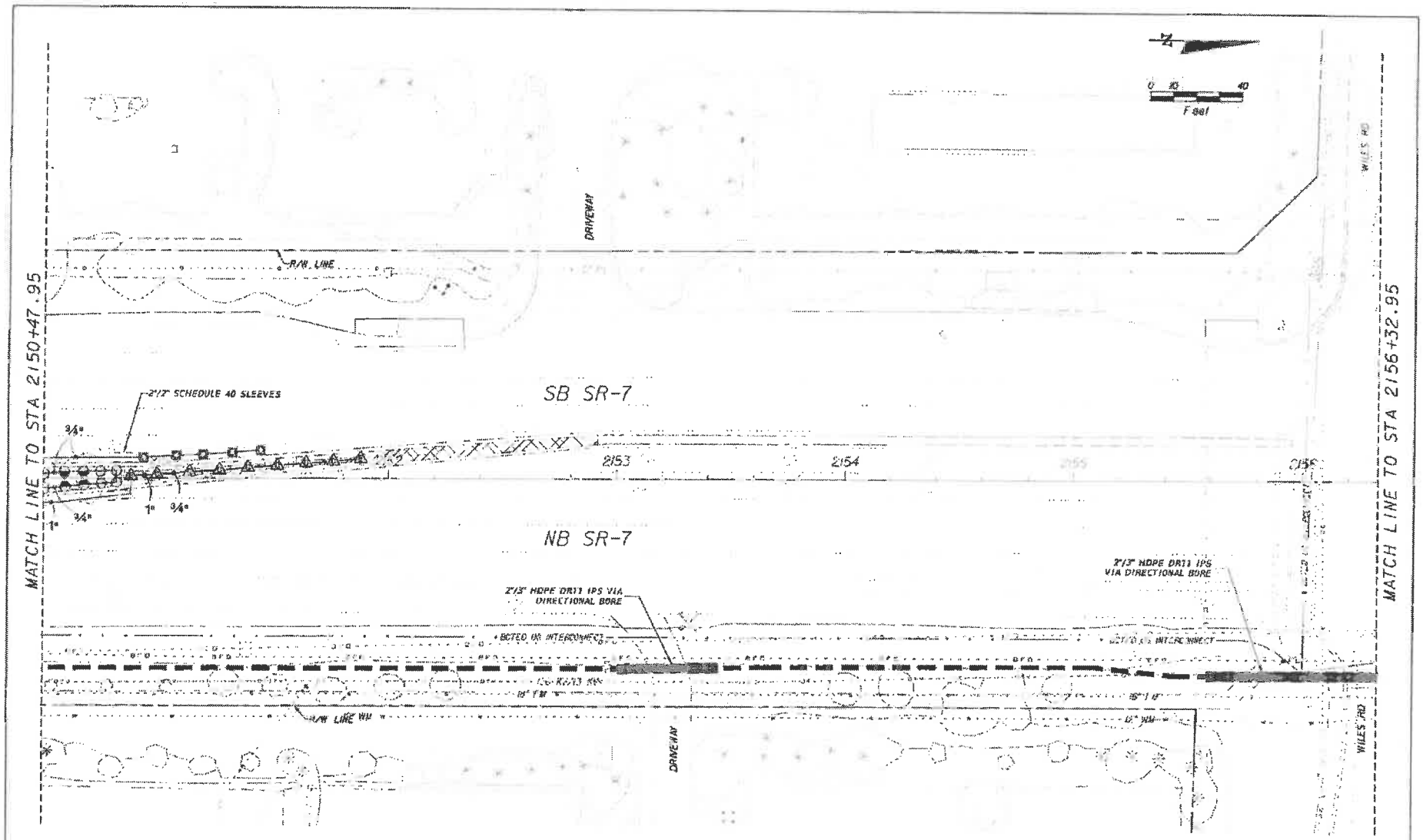
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

IRRIGATION PLAN

SHEET NO. LD-30



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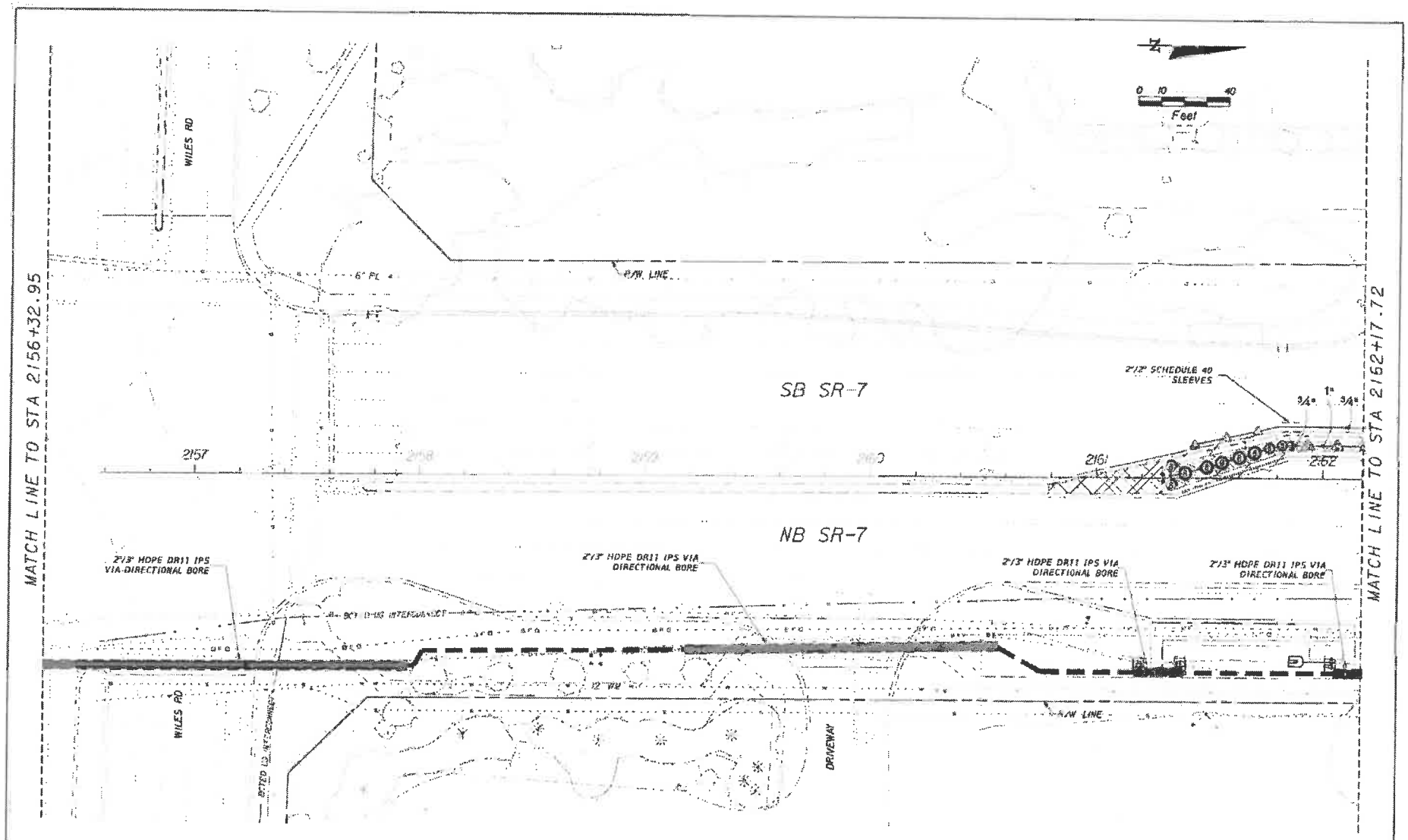
ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

IRRIGATION PLAN

SHEET NO.
LD-31



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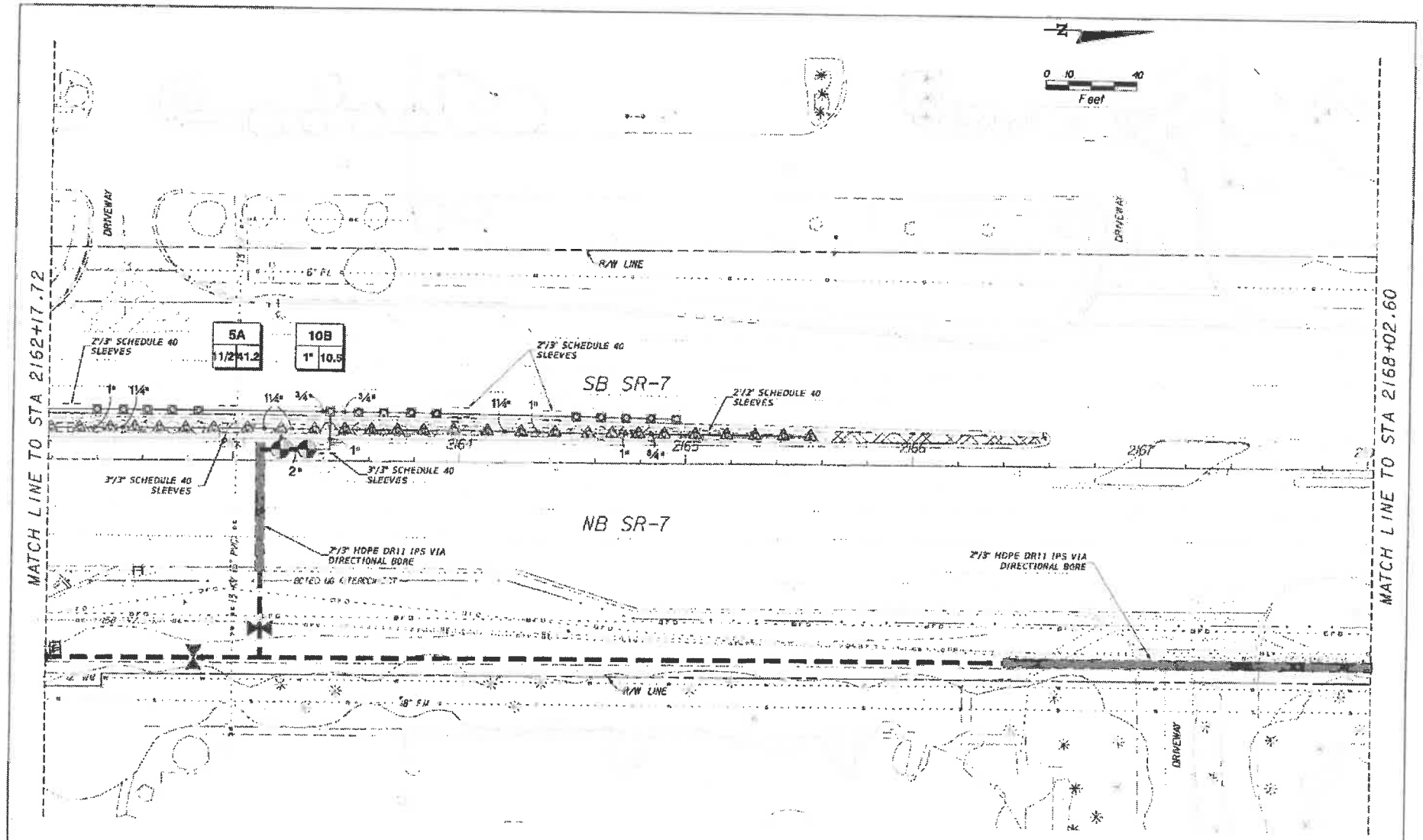
ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

IRRIGATION PLAN

SHEET NO. LD-32



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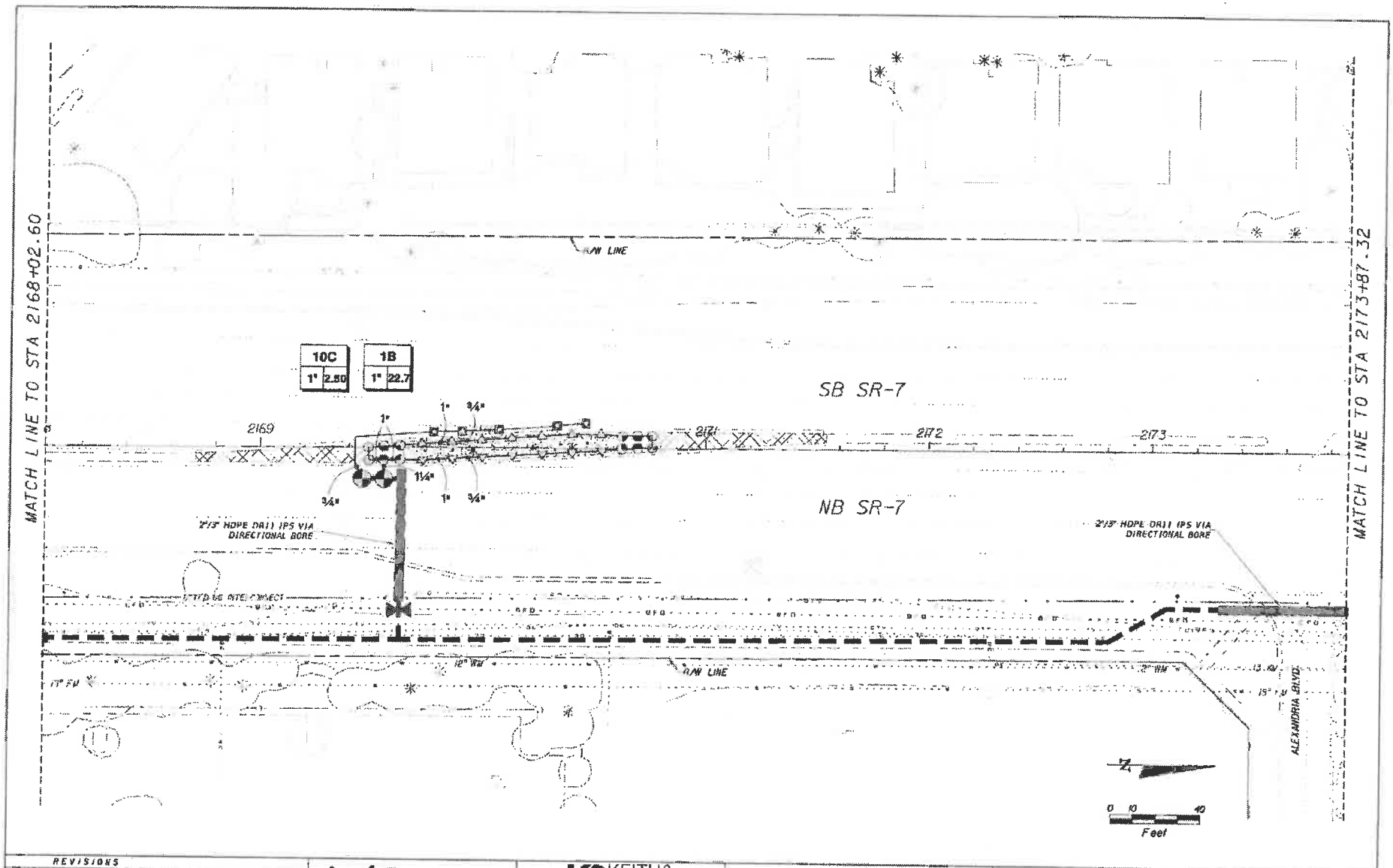
7	COCONUT CREEK	444935-1-74-01

IRRIGATION PLAN

SHEET NO. LD-33



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LANDSCAPE ARCHITECT OF RECORD: TODD MOHLER, R.L.A. #0001694
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STATE OF FLORIDA
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ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

IRRIGATION PLAN

SHEET NO.
LD-34

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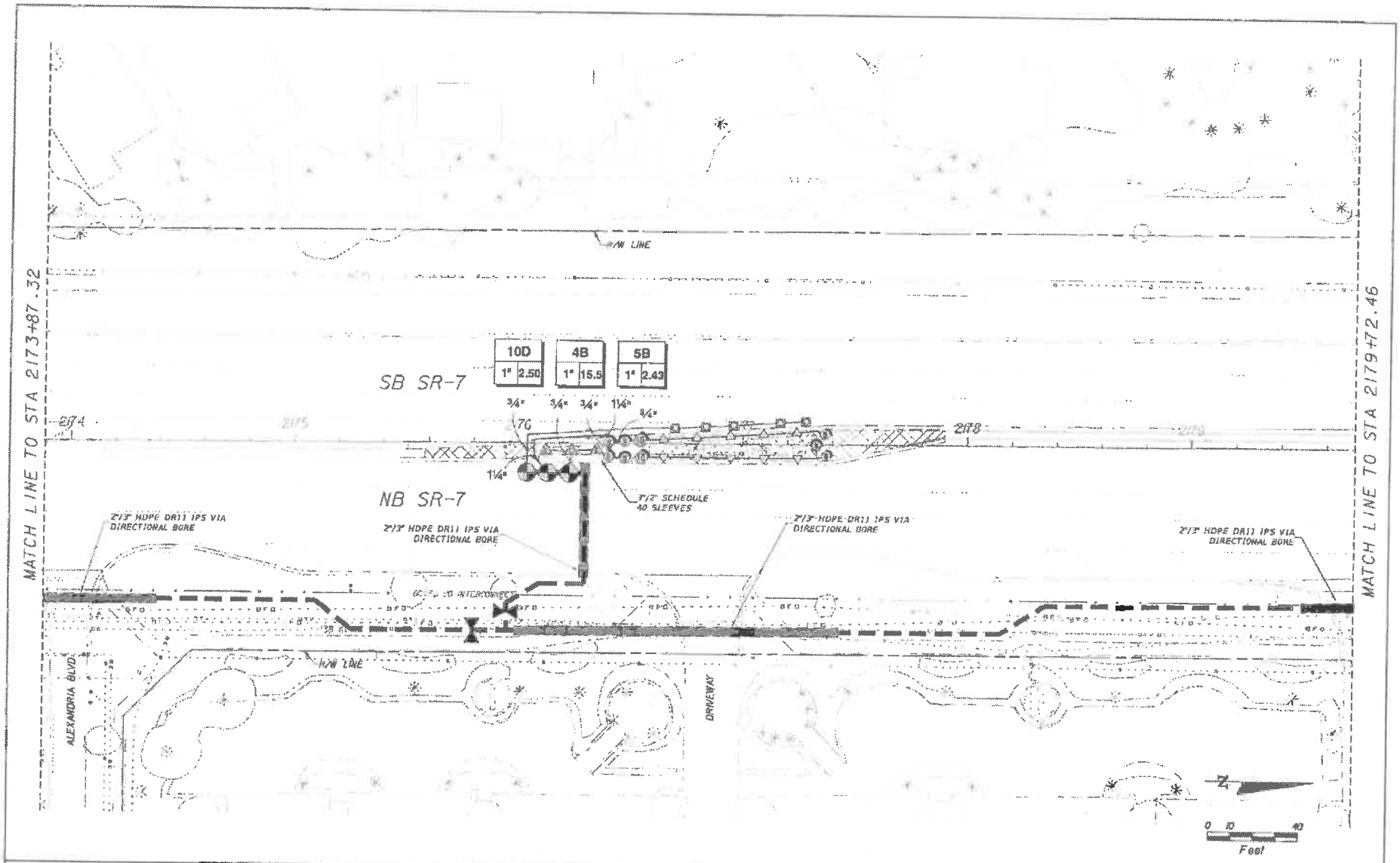

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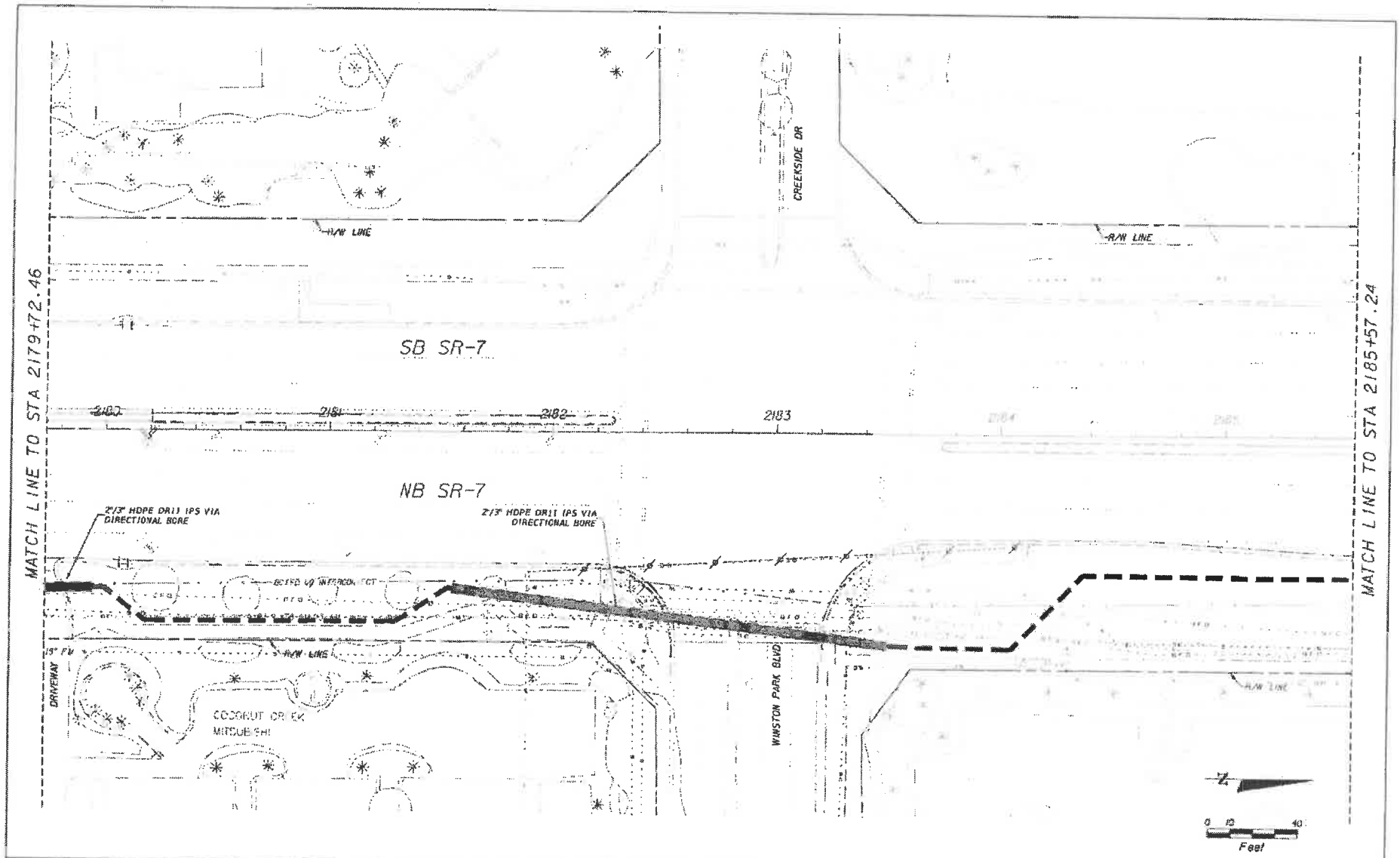
ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

IRRIGATION PLAN

SHEET NO. LD-35

4/12/2019



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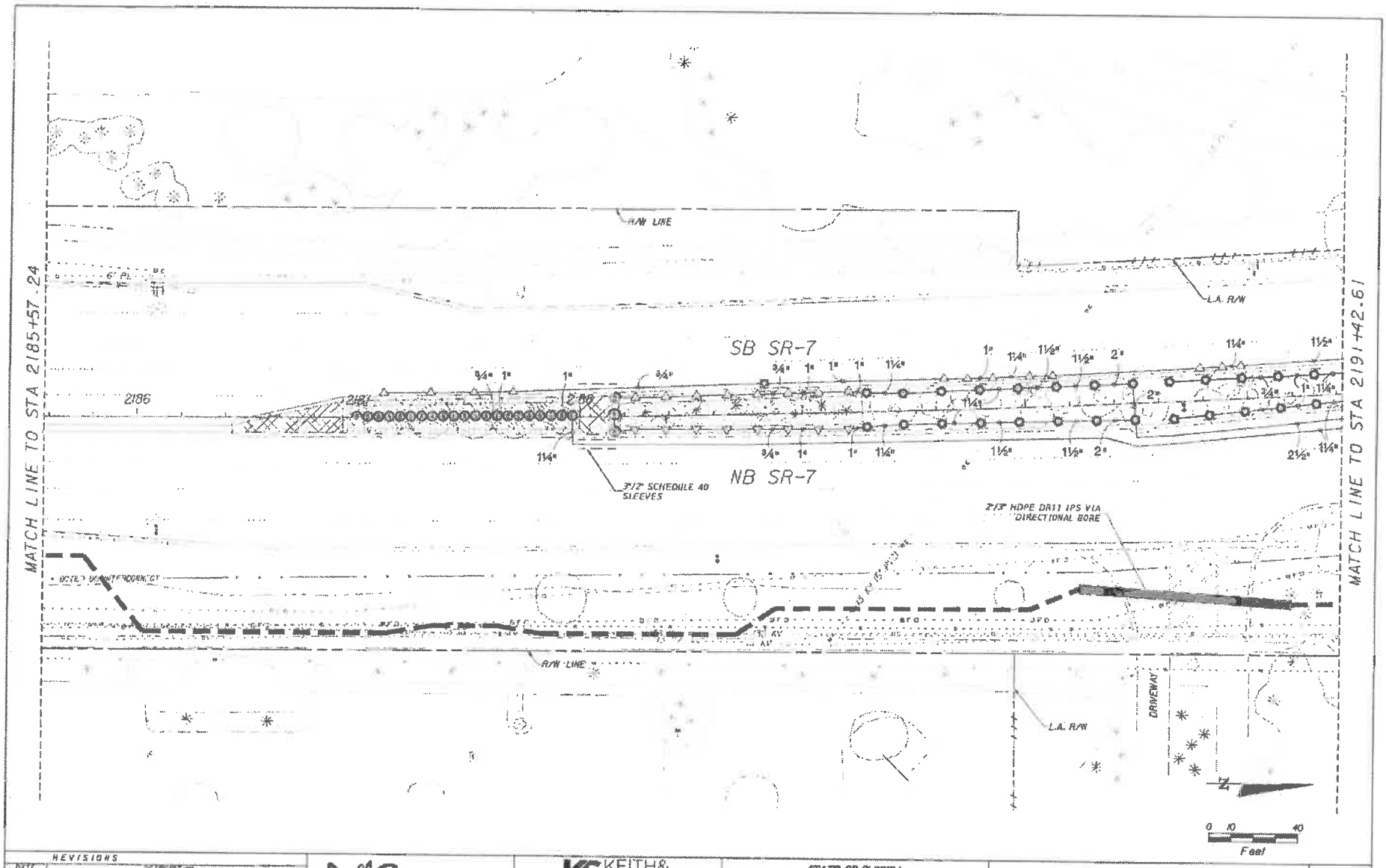
7	COCONUT CREEK	444935-1-74-01

IRRIGATION PLAN

SHEET NO. LD-36



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STATE OF FLORIDA
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ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

IRRIGATION PLAN

SHEET NO. LD-37

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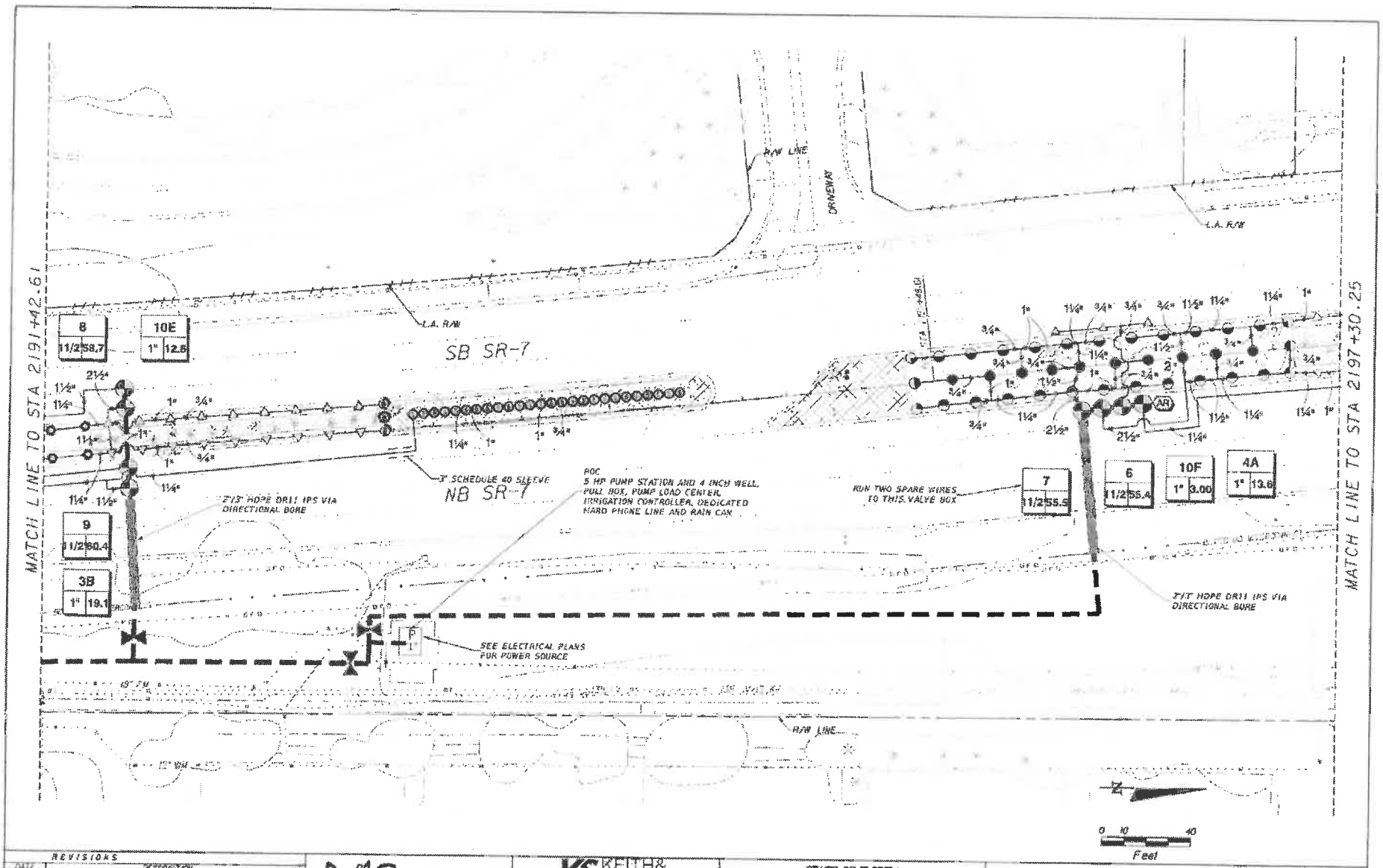

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DATE	DESCRIPTION

Coconut Creek
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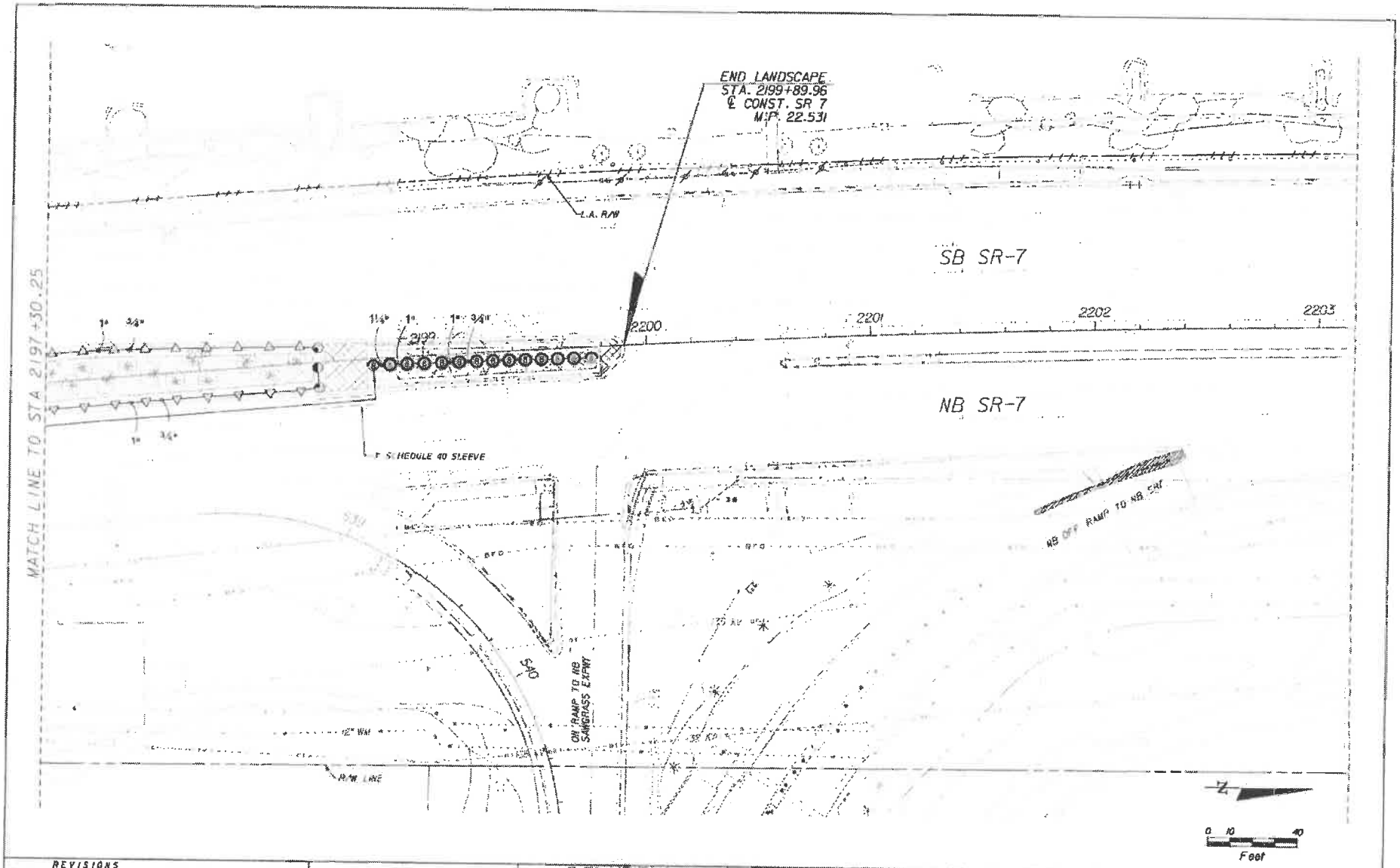
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

IRRIGATION PLAN

SHEET NO. LD-38



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DATE	DESCRIPTION

Coconut Creek
Butterfly Capital of the World

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	449935-1-74-01

IRRIGATION PLAN

SHEET NO. LD-39

PROJECT NOTES:

1. LANE CLOSURES SHALL OCCUR ONLY DURING NON-PEAK HOURS ON NON-EVENT DAYS/NIGHTS/WEEKENDS. NON-PEAK HOURS ARE: 9:00AM TO 4:00PM - WEEKDAYS AND WEEKENDS.
2. REGULATORY SPEED ESTABLISHED WITHIN THE WORK ZONE TRAVEL WAYS SHALL BE THE EXISTING POSTED SPEED.
3. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE ON-SITE AND AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.

TCP PHASING NOTES:

1. PHASE I WILL CLOSE LANES 1 BLOCK AT A TIME AND WILL BE REPEATED ALONG PROJECT LIMITS.

PHASE I: SR 7 LANDSCAPE AND IRRIGATION

1. CLOSE 1 LANE IN EACH DIRECTION IN ACCORDANCE WITH FDOT STANDARD PLANS INDEXES 102-600, 102-613 AND 102-616.
2. PERFORM WORK AS SHOWN IN PLANS.
3. FOR INSTALLATION OF IRRIGATION SLEEVES/DIRECTIONAL BORES.

   A) SIDE STREET CROSSINGS

   - DIRECTIONAL BORE USING STANDARD PLANS INDEX 102-611.

   B) CROSSING SR-7, CROSSING OF MEDIAN OPENINGS

   - CLOSE 1 MEDIAN LANE IN EACH DIRECTION USING STANDARD PLANS INDEXES 102-600, 102-613 AND 102-616.
   - DIRECTIONAL BORE WILL BE COMPLETED USING STANDARD PLANS INDEX 102-611 FOR EQUIPMENT ON THE OUTSIDE OF SR-7.

TCP NOTES

REVISIONS	
DATE	DESCRIPTION

COCONUT CREEK
BUTTERFLY CAPITAL OF THE WORLD®

KEITH SCHNARS
A DIVISION OF KCI
2000 N. Andrews Ave., Ft. Lauderdale, FL. 33308 (954)776-1616
ENGINEER OF RECORD: MATTHEW D. NEDDERF P.E. # 71911
CERTIFICATE OF AUTHORIZATION #1337

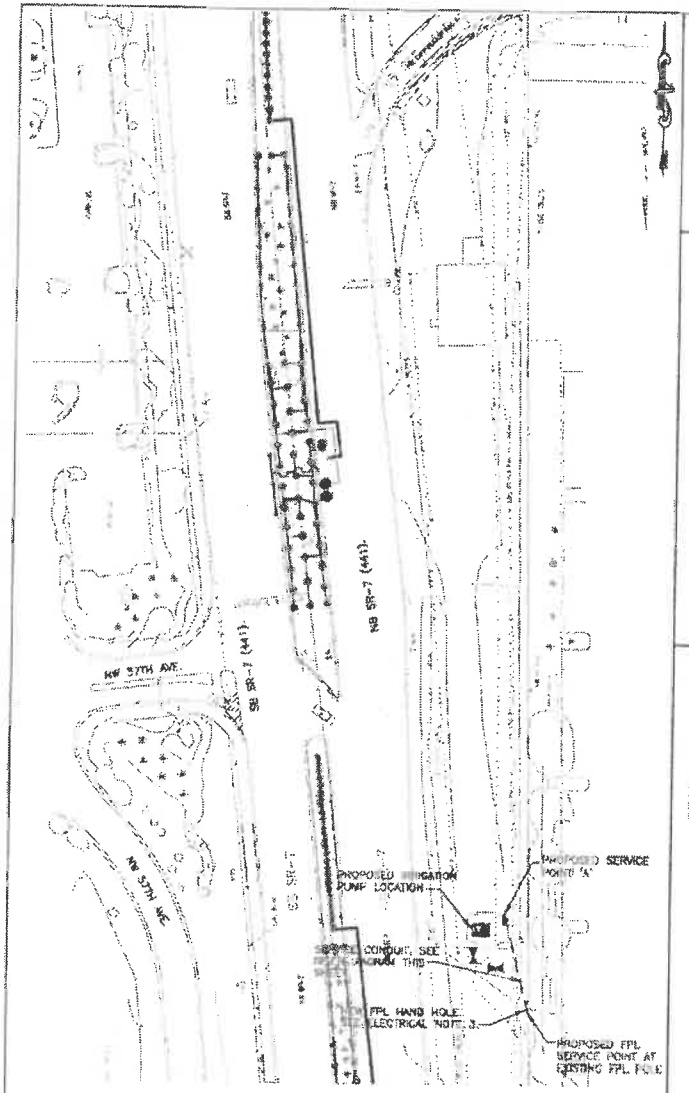
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	BEAUTIFICATION GRANT
7	COCONUT CREEK	2018-2019

TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. LD-40

Saul Franco 4/9/2019 4:55:21 PM Z:\Projects\18026.04 SR 7 HBC Grant Phase\Highways\SHEET\TCSHEET001.dgn

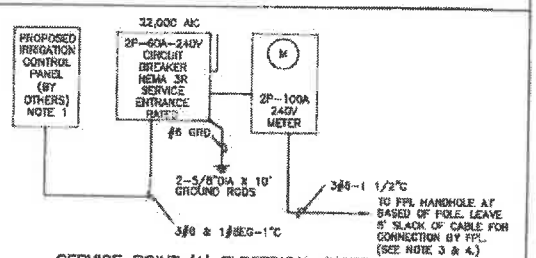


ELECTRICAL SITE PLAN

SCALE: 1"=40'-0"

ELECTRICAL NOTES:

1. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF CONTROL PANEL AND INSTALL CONDUIT AND WIRING AS NECESSARY FOR A COMPLETE WORKING SYSTEM IN PLACE.
2. CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT AND WIRING AS NECESSARY FOR A COMPLETE WORKING SYSTEM IN PLACE. CONTRACTOR SHALL VISIT THE SITE AND INCLUDE IN BID ALL TRENCHING COST OR DIRECTIONAL BORING, BACKFILL, RESODDING, ETC. FOR THE INSTALLATION.
3. CONTRACTOR SHALL INSTALL FPL PROVIDED HAND HOLE. INCLUDE IN BID THE COST FOR PICKING UP HAND HOLE AT FPL FACILITY AND DELIVERY TO THE SITE. INSTALL HAND HOLE AS PER FPL REQUIREMENTS.
4. CONTRACTOR SHALL COORDINATE WITH FPL FOR EXACT LOCATION OF THE SERVICE POINT.



SERVICE POINT 'A' ELECTRICAL RISER DIAGRAM

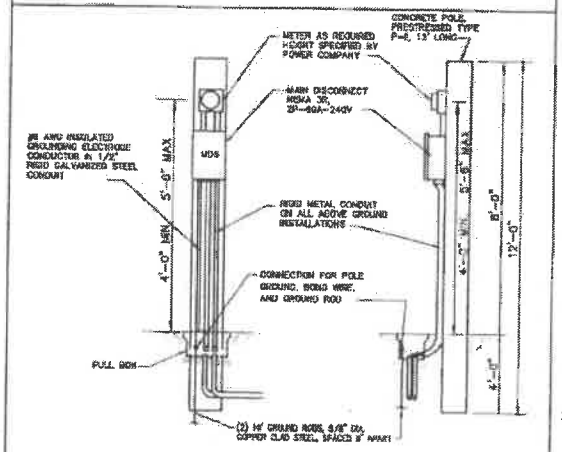
120/240V, 1 PHASE, 3 WIRE

SERVICE POINT 'A' DATA

DESCRIPTION	TOTAL HP	TOTAL KVA	TOTAL AMPS
IRRIGATION PUMP	5	5.0	20.8

CURRENT SERVICE CALCULATION
(20.8A X 1.25) = 26.0A

60A MAIN BREAKER IS ADEQUATE



EQUIPMENT ELEVATION

NOTE: 1. 4' MINIMUM CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT.
2. ALL MOUNTING HARDWARE SHALL BE 316 STAINLESS STEEL.

GENERAL NOTES AND SPECIFICATIONS:

1. THE SCOPE OF WORK SHALL CONSIST PRIMARILY OF THE FOLLOWING:
   A. PROVIDE AND INSTALL IRRIGATION PUMP POWER COMPLETE
   B. PROVIDE AND INSTALL SITE CONDUIT AND WIRING
   C. PROVIDE AND INSTALL SERVICE POINT 'A' COMPLETE.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2014 NATIONAL ELECTRICAL CODE, 2017 FLORIDA BUILDING CODE (6TH EDITION) AND ALL LOCAL CODES.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS AND APPROVALS AND TO INCLUDE ALL FEES AS PART OF HIS BID IF NOT OTHERWISE NOTED. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ENGINEER AND OWNER.
5. THE CONTRACTOR SHALL, BEFORE SUBMITTING HIS BID, VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM.
6. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH NEC, ARTICLE 250. THE GROUNDING SYSTEM TEST SHALL NOT EXCEED A 48 HOUR SPAN DRY RESISTANCE OF 10 OHMS. ADDITIONAL GROUNDING TO MEET THIS REQUIREMENT SHALL BE INSTALLED AT NO EXTRA COST. GROUNDING AND BONDING CONNECTIONS SHALL NOT BE PAINTED. ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMIC UNLESS SPECIFICALLY INDICATED OTHERWISE. AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL ELECTRICAL CONDUITS, POWER AND CONTROL, WHETHER OR NOT INDICATED ON THE PLANS.
7. ALL EQUIPMENT AND MATERIAL SHALL BE NEW AND UNUSED AND U.L. LISTED.
8. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS INSTALLED OR MODIFIED UNDER THIS PROJECT AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER.
9. ALL EQUIPMENT FURNISHED AND INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.
10. COORDINATE ALL ELECTRICAL EQUIPMENT LOCATIONS AND VERIFY ALL OBSTRUCTIONS WITH ALL SUBCONTRACTORS AND EQUIPMENT SUPPLIERS PRIOR TO ANY INSTALLATION.
11. ALL REFERENCES TO A PARTICULAR MANUFACTURER ARE GIVEN ON AN "APPROVED EQUAL" BASIS.
12. ALL EXCAVATIONS FOR CONDUITS AND HAND HOLES, NEAR EXISTING CONDUIT AND EQUIPMENT SHALL BE HAND EXCAVATED.
13. MINIMUM DEPTH FROM TOP OF DUCT BANKS OR CONDUITS TO FINISHED GRADE SHALL BE 24" UNLESS OTHERWISE NOTED.
14. CONDUCTOR PULLING TENSIONS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL INSTALL PULL BOXES TO MEET MANUFACTURER'S REQUIREMENTS.
15. PROVIDE CONDUIT DUCT SEAL AT ALL CONDUIT ENDS.
16. ALL CONDUCTORS SHALL BE COPPER, THHN/THWN OR XHHW, 600 VOLT RATED. NO ALUMINUM ALLOWED UNLESS SPECIFICALLY INDICATED ON DRAWINGS.
17. COLORED WARNING TAPE 6" WIDE SHALL BE INSTALLED 8" BELOW FINISHED GRADE DIRECTLY ABOVE ALL UNDERGROUND YARD CONDUITS ACCORDING TO THE FOLLOWING SCHEDULE:
    POWER: RED
    ALL OTHER CONDUITS: GREEN
18. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT.
19. ALL ABOVE GRADE CONDUIT SHALL BE RGS. SCHEDULE 40 P.V.C. SHALL BE USED UNDERGROUND. MINIMUM TRADE SIZE CONDUIT PERMITTED SHALL BE 3/4 INCH UNLESS OTHERWISE NOTED.
20. ALL CONDUITS SHALL HAVE A SEPARATE GREEN GROUND CONDUCTOR INSTALLED FOR GROUNDING, WHETHER OR NOT INDICATED ON THE PLANS.
21. SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING EQUIPMENT: CONDUIT, WIRE, AND CIRCUIT BREAKERS, DISCONNECT SWITCH.
22. CONTRACTOR SHALL, WITHIN 90 DAYS AFTER THE DATE OF THE SYSTEM ACCEPTANCE, PROVIDE TO THE BUILDING OWNER RECORD DRAWINGS OF THE ACTUAL INSTALLATION INCLUDING A SINGLE LINE DIAGRAM OF THE ELECTRICAL DISTRIBUTION SYSTEM AND RELATED FLOOR PLANS INDICATING THE LOCATION AND AREA SERVED FOR THE DISTRIBUTION.
23. CONTRACTOR SHALL PROVIDE TO THE BUILDING OWNER AN OPERATING AND MAINTENANCE MANUAL IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION C405.6.2 OF THE 2017 6TH EDITION FLORIDA BUILDING CODE – ENERGY CONSERVATION, INCLUDING ANY AMENDMENTS THERETO.
24. CONTRACTOR SHALL COORDINATE WITH FPL AND COMPLY WITH ALL OF THEIR REQUIREMENTS.

SEC Smith Engineering Consultants Inc.
Florida Certificate of Authorization #0028
2101 Palm Beach Lakes Blvd., Suite 512
West Palm Beach, FL 33409
(561) 640-0820 fax (561) 640-0932
LARRY M. SMITH, P.E. #43697

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS

DATE	DESCRIPTION

COCONUT CREEK
BUTTERFLY CAPITAL OF THE WORLD

KEITH & SCHNARS
A DIVISION OF KCI
8100 N. Andrews Ave., Ft. Lauderdale, FL. 33309 (954) 776-1616
CERTIFICATE OF AUTHORIZATION #1183

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD	COUNTY	IDENTIFICATION GRANT
7	COCONUT CREEK	2018-2019

IRRIGATION PUMP ELECTRICAL PLAN

SHEET NO. LD-41

SECTION No.(s): 86100000
S.R. No.(s): 7
FM No: 444935-1-74-01
COUNTY: BROWARD

EXHIBIT C

MAINTENANCE PLAN FOR LANDSCAPE IMPROVEMENTS

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

Please see attached

MAINTENANCE PLAN
Landscape Improvements

Project State Road No(s): State Road 7 (US 441 from Cullum Road (M.P. 21.411) to Eastbound State Road 869 (Sawgrass Expressway) On Ramp (M.P. 22.531)
FM No(s): 444935-1-74-01
Maintaining Agency: City of Coconut Creek
RLA of Record: Todd Keane Mohler
Date: May 10, 2019

I. GENERAL MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS:

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

WATERING REQUIREMENTS

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

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

IRRIGATION SYSTEM

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

INTEGRATED PLANT MANAGEMENT

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

n Development\Design\...\De...tu...GREEN...ENTS\1 MAINTENANCE PLAN...
...US...CREEK\A...Co...\20...9G...

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. Please be alert to changes in fertilization types per University of Florida, Institute of Food and Agricultural Services (I.F.A.S.) recommendations. Establishment of an integrated pest management program is encouraged to ensure healthy plants, which are free of disease and pests.

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

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

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

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

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

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

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

HARDSCAPE (SPECIALTY SURFACING)
All tree grates and specialty surfacing (if applicable) shall be maintained in such a manner as to prevent any potential tripping hazards and protect damage to the surfacing and tree grates. Final surface tolerance from grade elevations shall, at a minimum, meet the most current FDOT Maintenance Rating Program Handbook Pages 43-47; ADA accessible sidewalk; and FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on The State Highway System. If the specialty surfacing or tree grates become damaged, they shall be replaced with the same type and specification as the approved plan.

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

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

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

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

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

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

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

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

II. SPECIFIC PROJECT SITE MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS

The approved plans provide plant species selections consistent with the species located elsewhere on the corridor for continuity. Special maintenance requirements already identified in the Pruning section have the highest maintenance priority. Generally, the design provides an overstory of trees/palms, and an understory of turf, with a minor amount of concrete pavers and shrubs/groundcovers. Shrub/groundcover locations and quantities were limited by City request to keep maintenance requirements simplified.

Beyond the special maintenance requirements noted above, the overstory materials are intended to be maintained with natural form.

Understory materials are intended to be pruned as follows:

Dwarf Yaupon Holly – sheared to maintain a height between 24 and 30 inches
Horizontal Cocoplum –sheared to maintain a height between 36 and 48 inches
Confederate Jasmine – sheared to maintain a height between 15 and 18 inches.

The irrigation system must be regularly inspected to insure the system does not apply water to the surface of the road.

REFERENCES

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

Accessible Sidewalk (ADA)
http://www.access-board.gov/guidelines-and-standards/streets-sidewalks

Americans with Disabilities Act (ADA) (ADAAG)
http://www.ada.gov/2010ADAstandards_index.htm

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

Florida Department of Agriculture and Consumer Services, Division of Plant Industry, *Florida Grades and Standards for Nursery Plants 2015*
http://www.freshfromflorida.com/Divisions-Offices/Plant-Industry/Bureaus-and-Services/Bureau-of-Plant-and-Apiary-Inspection

Florida Department of Community Affairs (DCA), *Florida Board of Building Codes & Standards, 2017 Florida Building Code, Chapter 11 Florida Accessibility Code for Building Construction Part A*
http://www2.iccsafe.org/states/florida_codes/

Florida Department of Transportation, *Program Management, Maintenance Specifications Workbook Supplemental Specifications, Section 580 Landscape Installation*
http://www.fdot.gov/programmanagement/Maintenance/2018Jan/default.shtm

Florida Department of Transportation, *FDOT Standard Plans for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 580-001 Landscape Installation*
http://www.fdot.gov/design/standardplans/current/IDx/580-001.pdf

Florida Department of Transportation, *FDOT Design Manual for Design, Construction, Maintenance and Utility Operations on the State Highway System, Chapter 212.11 Clear Sight Triangles*
http://www.fdot.gov/roadway/FDM/current/2018FDM212Intersections.pdf

Florida Department of Transportation, *FDOT Design Manual for Design, Construction, Maintenance and Utility Operations on the State Highway System, Chapter 215.2.3 Clear Zone Criteria and 215.2.4 Lateral Offset*
Table 215.2.1 Clear Zone Width Requirements
Table 215.2.2 Lateral Offset Criteria (for Trees)
http://www.fdot.gov/roadway/FDM/current/2018FDM215RoadsideSafety.pdf

Florida Department of Transportation, *FDOT Standard Plans for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index Series 102-600 Traffic Control through Work Zones*
http://www.fdot.gov/design/standardplans/current/IDx/102-600.pdf

Department of Transportation, Landscape Architecture Website
www.MyFloridaBeautiful.com

Florida Department of Transportation, *Maintenance Rating Program Handbook*
http://www.dot.state.fl.us/statemaintenanceoffice/MaintRatingProgram.shtm

Florida Department of Transportation Outdoor Advertising Database
http://www2.dot.state.fl.us/rightofway/

Florida Exotic Pest Plant Council Invasive Plant Lists
http://www.fleppc.org/list/list.htm

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

Florida Power and Light (FPL), *Plant the Right Tree in the Right Place*
http://www.fpl.com/residential/trees/right_tree_right_place.shtml

SECTION No.(s): 86100000
S.R. No.(s): 7
FM No: 444935-1-74-01
COUNTY: BROWARD

EXHIBIT D

APPROXIMATE COST FOR LANDSCAPE IMPROVEMENTS

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

Anticipated Terms of a Separate Agreement

I.	FDOT PARTICIPATION: Via Separate Agreement	$100,000.00
	AGENCY PARTICIPATION:	$ 500,000.00
II.	APPROXIMATE LANDSCAPE IMPROVEMENT COST: Amounts are approximate	$ 600,000.00

Please see attached

COST ESTIMATE:

2019 Florida Highway Beautification Council Grant
City of Coconut Creek - SR7/US441
FM# 444935-1-74-01
5/9/2019

KEY	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	UNIT COST	SUBTOTAL
SHRUBS						
IV	184	ILEX VOMITORIA 'STOKES DWARF'	DWARF YAUPON HOLLY	3G, 12 IN HT X 12 IN SPR, 24 IN O.C.	$32.00	$5,888.00
CI	642	CHRYSOBALANUS ICACO 'HORIZONTALIS'	HORIZONTAL COCOPLUM	3G, 18 IN HT X 9 IN SPR, 24 IN O.C.	$28.00	$17,976.00
TJ	741	TRACHELOSPERMUM JASMINOIDES	CONFEDERATE JASMINE	3G 18 IN HT X 9 IN SPR, 24 IN O.C.	$8.00	$5,928.00
TREES						
BA	3	BULNESIA ARBOREA	VERAWOOD TREE	45G 10 FT HT 5 FT SPR, 2.5 IN	$360.00	$1,080.00
LS	8	LAGERSTROEMIA SPECIOSA	QUEEN'S CRAPE MYRTLE	10 FT HT X 6 FT SPR, 2 IN, STD	$900.00	$7,200.00
QV	10	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	14 FT HT X 7 FT SPR, 3-4 IN	$1,300.00	$13,000.00
SP	10	SABAL PALMETTO	SABAL PALM	12 - 24 FT, O.A., BOOTED	$320.00	$3,200.00
SPR	2	SABAL PALMETTO - RELOCATED	RELOCATED SABAL PALM		$350.00	$700.00
PE	20	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	5 FT CT,10 FT CT, MATCHED, 4 IN	$192.00	$3,840.00
SOD						
SA	18,718	STENOTAPHRUM SECUNDATUM	ST. AUGUSTINE GRASS	SQUARE FOOT	$0.60	$11,230.80
MULCH						
	1,200		RED MULCH	CUBIC YARDS	$24.00	$28,800.00
PAVERS						
	7,980		CONCRETE PAVERS, 8 IN X 8 IN	SQUARE FOOT	$10.00	$79,800.00
					LANDSCAPE TOTAL:	**$178,642.80**
IRRIGATION						
	1	IRRIGATION SYSTEM, COMPLETE - PER PLANS			$279,357.20	$279,357.20
SITE WORK & MISC.						
		DEMOLITION / CLEARING				$10,000.00
		MOBILIZATION				$36,000.00
		MAINTENANCE OF TRAFFIC				$36,000.00
		TREE REMOVALS				$10,000.00
		CONTINGENCY				$50,000.00
					GRAND TOTAL:	**$600,000.00**

RESOLUTION NO. 2018-173

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF COCONUT CREEK, FLORIDA AUTHORIZING THE CITY MANAGER, OR DESIGNEE, TO APPLY FOR AND ACCEPT HIGHWAY BEAUTIFICATION GRANT FUNDING IN THE AMOUNT OF $100,000 FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AND TO EXECUTE A LANDSCAPE CONSTRUCTION AND MAINTENANCE AGREEMENT WITH FDOT FOR THE PURPOSE OF PROVIDING LANDSCAPE AND IRRIGATION IMPROVEMENTS ON THE MEDIANS ALONG STATE ROAD 7, BETWEEN THE SAWGRASS EXPRESSWAY AND CULLUM ROAD; PROVIDING FOR SEVERABILITY; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the Florida Department of Transportation (FDOT) Highway Beautification Grant Program offers the City an opportunity to apply for grant funding for landscape beautification projects on State roadways; and

WHEREAS, a proposed Capital Improvement Program (CIP) project, entitled "State Road 7 Median Beautification," has been submitted for approval in the Fiscal Year 2019 Budget; and

WHEREAS, staff is recommending that the City pursue the aforementioned grant for the purpose of providing landscape and irrigation improvements to the medians along State Road 7, between the Sawgrass Expressway and Cullum Road; and

WHEREAS, the City of Coral Springs has agreed to pay for 50% of the ongoing costs of maintenance of this project; and

WHEREAS, the City Commission of the City of Coconut Creek believes it is in the best interest of the City to pursue the FDOT Highway Beautification Grant in the amount of $100,000 for the purpose of making landscape and irrigation beautification improvements within the median rights-of-way on State Road 7 from the Sawgrass Expressway to Cullum Road.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF COCONUT CREEK, FLORIDA:

Section 1: That the foregoing "WHEREAS" clauses are hereby ratified and confirmed as being true and correct and are hereby made a specific part of this Resolution.

Section 2: That the City Commission hereby authorizes the City Manager, or designee, to apply for a Highway Beautification Grant in the amount of $100,000 from the Florida Department of Transportation, and if awarded, to accept the grant, and enter into a Beautification Grant, Landscape Construction, and Maintenance Memorandum of Agreement between the Florida Department of Transportation and the City of Coconut Creek.

Section 3: That if any clause, section, other part or application of this Resolution is held by any court of competent jurisdiction to be unconstitutional or invalid, in part or in application, it shall not affect the validity of the remaining portion or applications of this Resolution.

Section 4: That this Resolution shall be in full force and effect immediately upon its adoption.

Adopted this 13th **day of** September, **2018.**

Joshua Rydell, Mayor

Attest:

Leslie Wallace May, City Clerk

Rydell	Aye
Welch	Aye
Tooley	Aye
Sarbone	Aye
Belvedere	Aye

SECTION No.(s):	**861200000**
S.R. No.(s):	**810**
Permit No:	**2019-L-491-00007**
COUNTY:	**BROWARD**

DISTRICT FOUR (4) AMENDMENT NUMBER SEVEN (7) TO STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION LANDSCAPE INCLUSIVE MEMORANDUM OF AGREEMENT

THIS AMENDMENT Number Seven (7) to the Agreement dated May 27, 2009, made and entered into this 7th day of January 2020 by and between the State of Florida Department of Transportation hereinafter called the DEPARTMENT and the **CITY OF COCONUT CREEK**, a municipal subdivision of the State of Florida, hereinafter called the AGENCY.

WITHNESSETH

WHEREAS, the parties entered into the Landscape Inclusive Maintenance Memorandum of Agreement dated, May 27, 2009 for the purpose of maintaining the landscape improvements by the AGENCY on various roads including State Road 810 (Hillsboro Boulevard); and,

WHEREAS, the DEPARTMENT and the AGENCY have agreed to add additional landscape to be installed on State Road 810 (Hillsboro Boulevard) in accordance with the above referenced Agreement; and,

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

1. Pursuant to Page 7, Paragraph 8 of the Landscape Inclusive Maintenance Memorandum of Agreement for State Road 810 (Hillsboro Boulevard) dated May 27, 2009, the DEPARTMENT will allow the AGENCY to construct additional landscape improvements or to modify an improvement located as indicated in **Exhibit "A"**, State Road 810 (Hillsboro Boulevard) from M. P 1.254 to M.P. 1.338. In accordance with the plans attached as **Exhibit "B"**.

2. The AGENCY shall agree to maintain the additional landscape improvements in the Agreement described above in accordance with the Maintenance Plan, **Exhibit "C"** of the original agreement and,

II. SPECIFIC PROJECT SITE MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS

Basic maintenance for this area outside of the guidelines provided above, is to prune the groundcover to maintain a natural habit with full foliage, while trimming lateral branching as required to prevent foliage from growing beyond the limits of planting area onto the hardscape / pedestrian zones.

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

LIST OF EXHIBITS

Exhibit A - Landscape Improvements Maintenance Boundaries Limits
Exhibit B - Landscape Improvement Plans

In Witness whereof, the parties hereto have executed with this Amendment effective the 20th day January year written and approved.

CITY OF COCONUT CREEK

By: _____
Karen M. Brooks, City Manager

Attest: _____ (SEAL)
Leslie Wallace May, City Clerk

Legal Review _____ Date _____
Terrill C. Pyburn, City Attorney 11/14/19

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

By: _____
Transportation Development Director

Attest: _____ (SEAL)
Executive Secretary

Legal Review _____ Date 4/3/2020
Office of the General Counsel

SECTION No.(s): 861200000
S.R. No.(s): 810
Permit No: 2019-L-491-00007
COUNTY: BROWARD

EXHIBIT A

LANDSCAPE IMPROVEMENTS

MAINTENANCE BOUNDARIES LIMITS

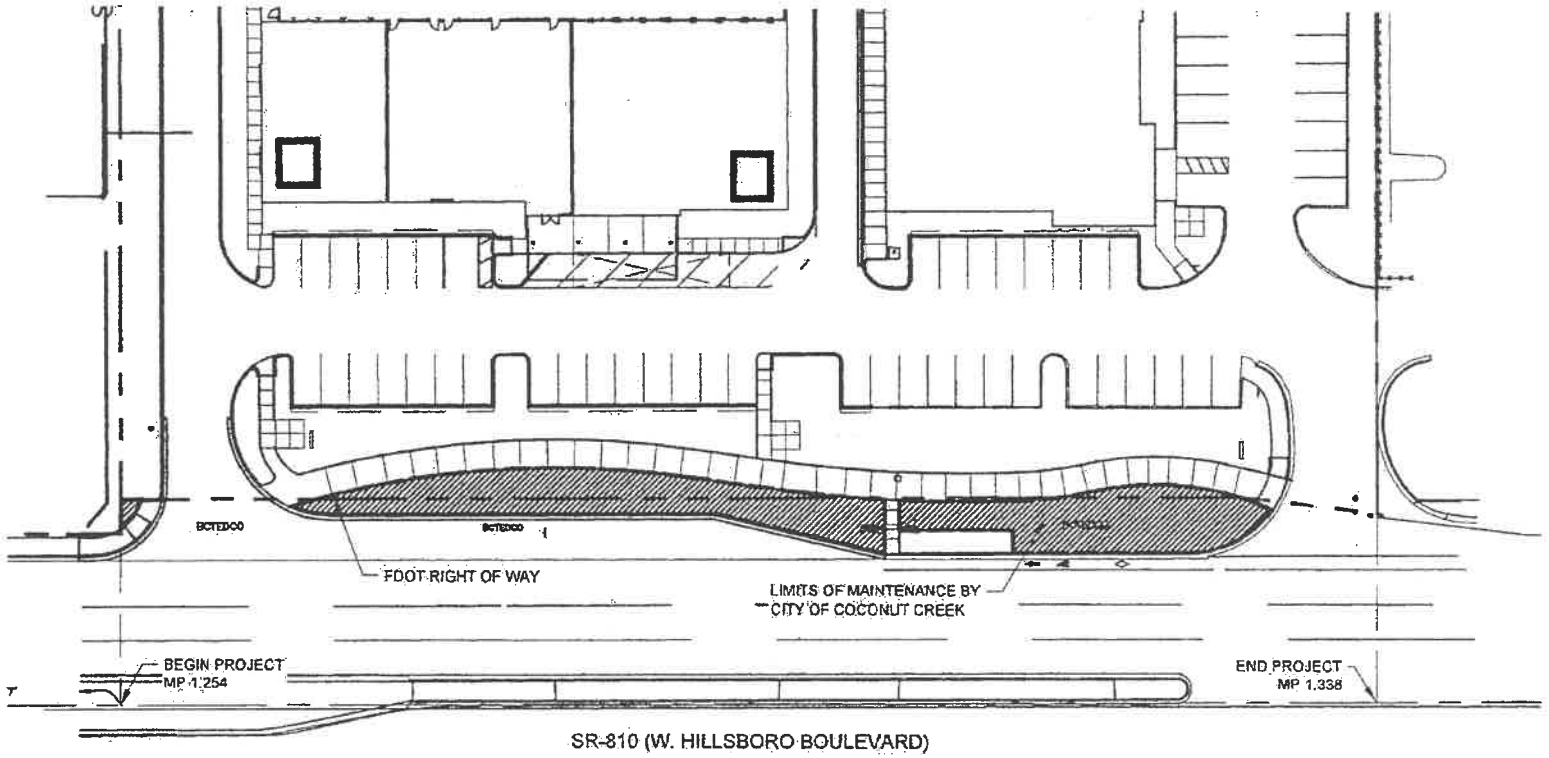
I. LANDSCAPE PROJECT LIMITS FOR THIS PROJECT:
State Road 810 (Hillsboro Boulevard) from M. P 1.254 to M.P. 1.338

II. ORIGINAL INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT LIMITS FOR State Road 810 (Hillsboro Boulevard):
M.P. 0.000 (East of State Road 7) to M.P. 1.997 (East of State Road 91)

III. LANDSCAPE IMPROVEMENTS MAINTENANCE RESPONSIBILITIES MAP FOR THIS PROJECT:

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

Please See Attached



SR-810 (W. HILLSBORO BOULEVARD)

LIMITS OF MAINTENANCE BY
CITY OF COCONUT CREEK

KEITH
301 East Atlantic Boulevard
Pompano Beach, FL 33060
Florida Certificate of
Authorization # - 7928

DATE: 08/08/2019
SCALE: AS NOTED
DRAWN BY: MP
DESIGN BY: MP
CHECKED BY: MP

GRAPHIC SCALE
0 10 30 60 120
SCALE: 1"=60'
NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

N

LANDSCAPE IMPROVEMENT MAINTENANCE BOUNDARY MAP
CITY OF COCONUT CREEK

LM-001

FDOT LANDSCAPE PERMIT NO. 2019-L-491-00007

SECTION No.(s): 861200000
S.R. No.(s): 810
Permit No: 2019-L-491-00007
COUNTY: BROWARD

EXHIBIT B

LANDSCAPE IMPROVEMENT PLANS

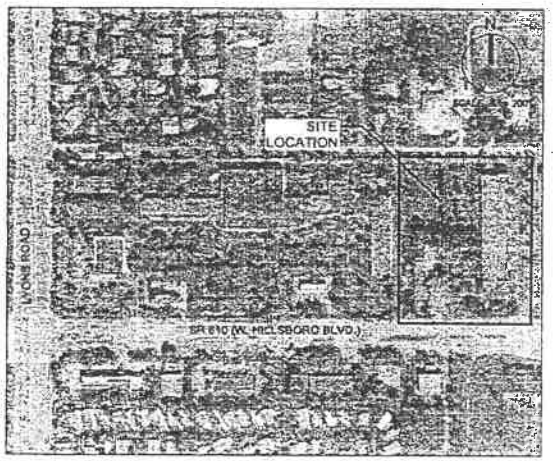
The AGENCY agrees to install the landscape improvements in accordance with the plans and specifications attached hereto and incorporated herein.

Please see attached plans prepared by:

Michael J. Phillips, RLA
KEITH
June 25, 2019

BCHCED REF. # 180514051

PERMIT PLANS
FOR
LEDER HILLSBORO
4191 W. HILLSBORO BOULEVARD
COCONUT CREEK, FL 33073



LOCATION MAP
SECTION 05, TOWNSHIP 48 S, RANGE 42 E
FOLIO NUMBER 4842 05 24 0010

INDEX OF SHEETS	
Sheet Identification	Sheet Title
GI-000	COVER
TD-101	TREE DISPOSITION PLAN
TD-103	TREE DISPOSITION LIST
LP-101	LANDSCAPE PLAN
LP-101A	FDOT CLEAR SIGHT LINE EXHIBIT
IR-101	IRRIGATION PLAN
IR-102	IRRIGATION PLAN
IR-103	IRRIGATION DETAILS AND LEGEND

FDOT SPECIFICATIONS AND DESIGN STANDARD INDEXES:
- "GOVERNING STANDARD PLANS: FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2018-19 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRs)."
- GOVERNING STANDARD SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2018 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

PERMITTING AGENCIES	PERMIT NO.
CITY OF COCONUT CREEK ENGINEERING & UTILITIES	
FLORIDA DEPARTMENT OF HEALTH IN BROWARD COUNTY	0126396-174-DSGP
BROWARD COUNTY ENVIRONMENTAL PROTECTION (WASTE WATER)	WW-62579
BROWARD COUNTY ENVIRONMENTAL PROTECTION (STORM WATER)	E2017-203
SOUTH FLORIDA WATER MANAGEMENT DISTRICT	0000058879
BROWARD COUNTY HIGHWAY CONSTRUCTION & ENGINEERING	180514051
FDOT ACCESS	2017-A-491-073
FDOT DRAINAGE	2017-D-491-071
FDOT UTILITY	2018-H-491-429

THE PUBLIC ROADWAY(S) INDICATED IN THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS & HIGHWAYS - STATE OF FLORICA.

FEMA FLOOD ZONE:

THE PROPERTY IS LOCATED WITHIN FLOOD ZONES AE (16), X AND "0.2 PERCENT ANNUAL CHANCE FLOOD HAZARD" AS SHOWN ON F.I.R.M. No. 12011C0158H, BEARING A MAP EFFECTIVE DATE OF 08/18/2014.

RELATIONSHIP BETWEEN NGVD 1929 AND NAVD 1988

ELEV.	DIFFERENCE	DATUM
1.55'	+1.55 FEET	NGVD 1929
0.00'		NAVD 1988

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 1988 DATUM

LAND DESCRIPTION:

ALL OF PARCEL "A", "LEDER HILLSBORO COMPANY LIMITED - PART 2", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 166, PAGE 43, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

TOGETHER WITH:

ALL OF TRACT "A", "LEDER HILLSBORO COMPANY LIMITED - PART 1", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 125, PAGE 31, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

SAID LANDS LYING IN THE CITY OF COCONUT CREEK, BROWARD COUNTY, FLORIDA.

THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

811 KNOW WHAT'S BELOW. ALWAYS CALL 811 BEFORE YOU DIG
www.callsunshine.com

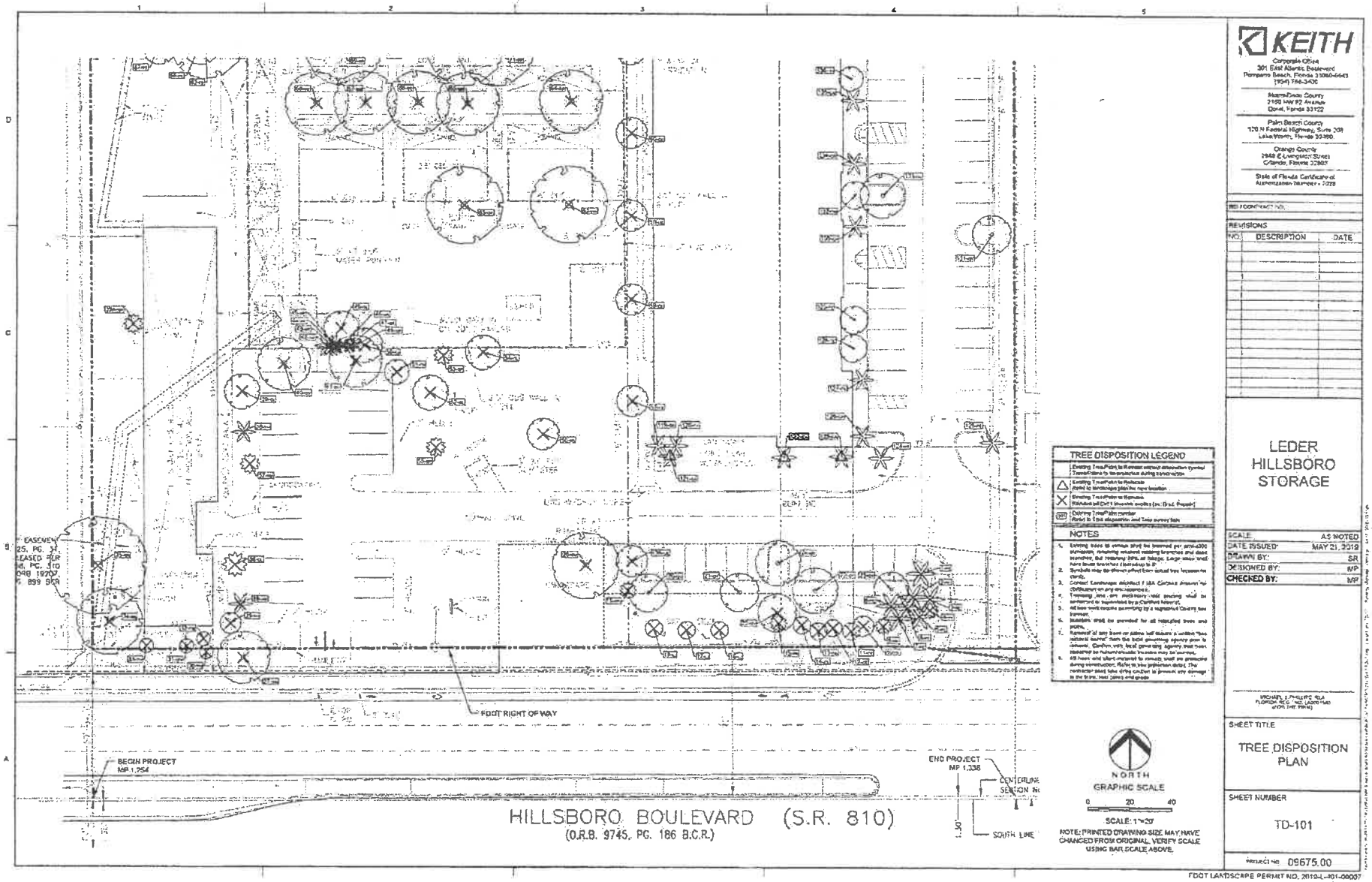
PREPARED FOR:
THE LEDER GROUP
4755 TECHNOLOGY WAY, SUITE 203
BOCA RATON, FL 33431

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
State of Florida Certificate of Authorization Number - 7928

Michael J Phillips
2019.05.15
12:26:15-04'00'
MICHAEL J. PHILLIPS, PLA
FLORIDA REG. NO. LA0001040
FOR THE FIRM

PROJECT No. 09675.00 DATE: 05/21/2019

FDOT LANDSCAPE PERMIT NO. 2019-L-491-00007



TREE DISPOSITION LEGEND

	Existing Tree/Palm to Remain and remain protected throughout construction
△	Existing Tree/Palm to Relocate (refer to landscape plan for new location)
X	Existing Tree/Palm to Remove (Withdrawal will NOT relieve owner from Brd. Permit)
000	Existing Tree/Palm number (Refer to Tree disposition and Tree survey list)

NOTES

1. Existing trees to remain shall be preserved per ANSI-A300 standards, including retained existing branches and dead wood/liner, but removing 20% or larger. Large limbs shall have been branched / trimmed back to 8".
2. Symbols may be different when from actual tree locations for clarity.
3. Contact Landscape Architect / LSA Campus Arborist for clarification on any discrepancies.
4. Trimming and any mechanical root pruning shall be performed or supervised by a Certified Arborist.
5. All tree work require permitting by a registered County tree trimmer.
6. Mulch ring shall be provided for all relocated trees and palms.
7. Removal of any trees or palms not shown / written "tree removal source" from the bold permitting agency prior to removal. Confirm with local governing agency that trees identified for removal/relocation have been surveyed.
8. All trees and plant material to remain shall be protected during construction. Refer to tree protection detail. The contractor shall take extra caution to prevent any damage to the trunk, root zones and grade.

NORTH

GRAPHIC SCALE

0 20 40

SCALE: 1"=20'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

KEITH

Corporate Office
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400

Miami-Dade County
2100 NW 87 Avenue
Doral, Florida 33172

Palm Beach County
120 N Federal Highway, Suite 208
Lake Worth, Florida 33460

Orange County
2848 E Livingston Street
Orlando, Florida 32803

State of Florida Certificate of Authorization Number: 7228

FED PROJECT NO.

REVISIONS

NO.	DESCRIPTION	DATE

LEDER
HILLSBORO
STORAGE

SCALE	AS NOTED
DATE ISSUED	MAY 21, 2019
DRAWN BY:	SR
DESIGNED BY:	MP
CHECKED BY:	MP

MICHAEL J. PHILLIPS, RLA
FLORIDA REG. NO. LA0001440
(FOR THIS PHASE)

SHEET TITLE

TREE DISPOSITION PLAN

SHEET NUMBER

TD-101

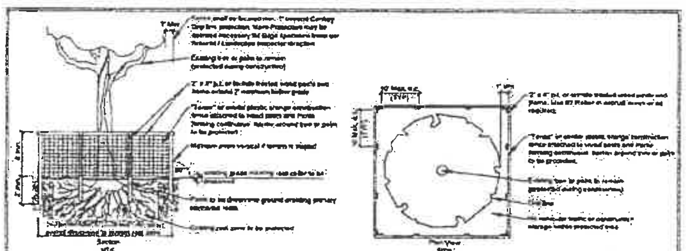
PROJECT NO. 09675.00

FDOT LANDSCAPE PERMIT NO. 2019-L-301-00007

TREE DISPOSITION TABLE

TREE #	COMMON NAME	SCIENTIFIC NAME	DBH IN.	HT. FT.	SPRD. FT.	TREE % CONDITION	TREE DISPOSITION	CANOPY LOSS Sq. Ft.	COMMENTS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TREE #	COMMON NAME	SCIENTIFIC NAME	DBH IN.	HT. FT.	SPRD. FT.	TREE % CONDITION	TREE DISPOSITION	CANOPY LOSS Sq. Ft.	COMMENTS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]



TEMPORARY TREE PROTECTION DETAIL

KEITH
Corporate Office
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400

Miami-Dade County
2160 NW 82 Avenue
Doral, Florida 33122

Palm Beach County
120 N Federal Highway, Suite 203
Lake Worth, Florida 33460

Orange County
2948 E Livingston Street
Orlando, Florida 32803

State of Florida Certificate of Authorization Number - 7928

PROJ CONTRACT NO.

REVISIONS

NO.	DESCRIPTION	DATE

LEDER HILLSBORO STORAGE

SCALE:	AS NOTED
DATE ISSUED:	MAY 21, 2019
DRAWN BY:	SR
DESIGNED BY:	MP
CHECKED BY:	MP

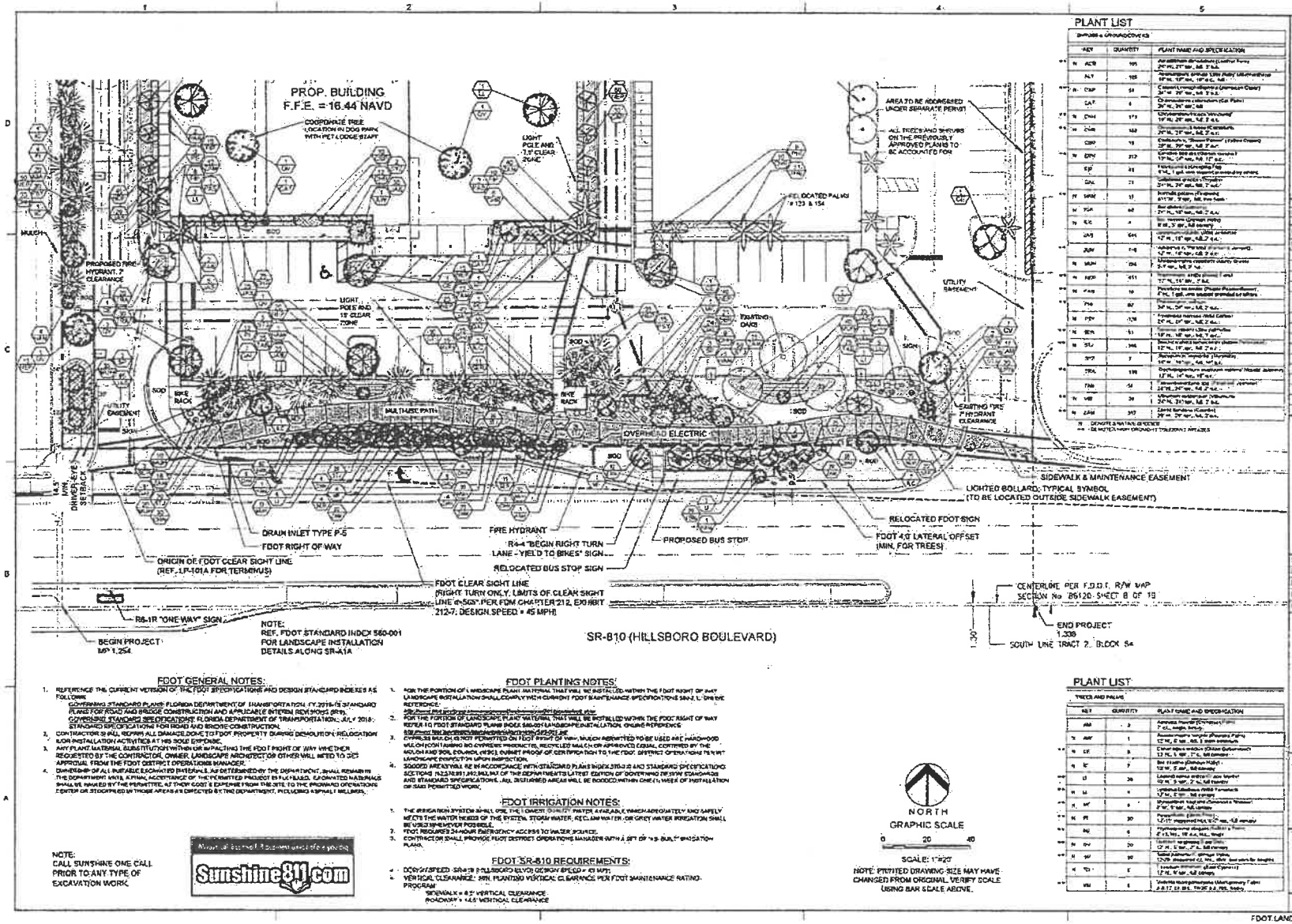
MICHAEL J. PHILLIPS, RLA
FLORIDA REG. NO. LA0001342
(FOR THE FIRM)

SHEET TITLE
TREE DISPOSITION LIST

SHEET NUMBER
TD-103

PROJECT NO. 09675.00

FDOT LANDSCAPE PERMIT NO: 2019-L-491-00007



PLANT LIST

SHRUBS & GROUNDCOVER

KEY	QUANTITY	PLANT NAME AND SPECIFICATION
N ACB	105	Acalypha wilkesiana 'Godseffiana' / Godseff Nettle; 24" Ht., 24" Spr., full, 3' o.c.
PAT	103	Pennisetum setaceum 'Purple Cane' / Purple Fountain Grass; 18" Ht., 18" Spr., full, 18" o.c.
N CHP	54	Chrysobalanus icaco 'Horizontal' / Horizontal Cocoplum; 24" Ht., 24" Spr., full, 3' o.c.
CAT	6	Chrysobalanus icaco 'Red Tips' / Red Tips Cocoplum; 24" Ht., 24" Spr., full, 3' o.c.
N CHH	173	Chrysobalanus icaco 'Horizontal' / Horizontal Cocoplum; 18" Ht., 24" Spr., full, 3' o.c.
N CHR	162	Chrysobalanus icaco 'Red Tips' / Red Tips Cocoplum; 24" Ht., 24" Spr., full, 3' o.c.
CHP	19	Chrysanthemum x 'Clown Yellow' / Clown Yellow Mum; 18" Ht., 18" Spr., full, 2' o.c.
N DPH	212	Dianella tasmanica 'Variegata' / Variegated Flax Lily; 12" Ht., 24" Spr., full, 18" o.c.
EIP	43	Eleocharis parvula / Dwarf Spike Rush; 6" Ht., 6" Spr., full, 6" o.c.
GAL	71	Gaillardia aristata 'Dazzler' / Dazzler Blanket Flower; 24" Ht., 24" Spr., full, 2' o.c.
N HAM	15	Hamelia patens / Firebush; 6'-7' Ht., 3' Spr., full, min. 3 ea. trunk
N HUA	60	Bulbine frutescens / Stalked Bulbine; 24" Ht., 18" Spr., full, 2' o.c.
N IVA	4	Ilex vomitoria 'Nana' / Dwarf Yaupon Holly; 6' Ht., 3' Spr., full, full canopy
JUN	644	Juncus effusus / Soft Rush; 12" Ht., 18" Spr., full, 2' o.c.
JUM	118	Juncus effusus 'Spiralis' / Corkscrew Rush; 12" Ht., 18" Spr., full, 2' o.c.
N MUH	104	Muhlenbergia capillaris 'Lenca' / Lenca Muhly; 24" Ht., 18" Spr., full, 3' o.c.
N NER	451	Nephrolepis exaltata 'Fluffy Ruffles' / Fluffy Ruffles Sword Fern; 12" Ht., 15" Spr., 2' o.c.
N PAS	10	Paspalum notatum 'Pensacola' / Pensacola Bahiagrass; 4" Ht., 1 gal., min. 4 shoots, spread by rhizomes
PHI	87	Philodendron 'Xanadu' / Xanadu Philodendron; 36" Ht., 24" Spr., full, 2' o.c.
N PSY	178	Pseudelephantopus spicatus / Spiked Elephant's Foot; 24" Ht., 24" Spr., full, 2' o.c.
N SEN	51	Senna mexicana var. chapmanii / Chapman's Senna; 18" Ht., 18" Spr., full, 3' o.c.
N STO	366	Stachytarpheta jamaicensis 'Blue' / Blue Porterweed; 12" Ht., 18" Spr., full, 2' o.c.
SYC	7	Syzygium paniculatum 'Compacta' / Compacta Dwarf Brush Cherry; 18" Ht., 18" Spr., full, 3' o.c.
TRA	139	Trachelospermum asiaticum 'Minima' / Minima Asiatic Jasmine; 12" Ht., 18" Spr., full, 2' o.c.
TAN	54	Tripsacum dactyloides / Fakahatchee Grass; 24" Ht., 24" Spr., full, 2' o.c.
N VIB	39	Viburnum obovatum 'Compacta' / Compacta Walter's Viburnum; 24" Ht., 24" Spr., full, 3' o.c.
ZAM	347	Zamia floridana / Coontie; 24" Ht., 24" Spr., full, 3' o.c.

N = DENOTES A NATIVE SPECIES
** = DENOTES HIGH DROUGHT TOLERANT SPECIES

PLANT LIST

TREES AND PALMS

KEY	QUANTITY	PLANT NAME AND SPECIFICATION
AMA	3	Annona muricata / Soursop; 7' Ht., height, full top
N AMW	1	Bucida buceras 'Shady Lady' / Shady Lady Black Olive; 12' Ht., 6' Spr., min. 1 main stem/trunk
N CE	3	Conocarpus erectus sericeus / Silver Buttonwood; 12' Ht., 5' Spr., 2" cal., full canopy
N CF	7	Ficus microcarpa 'Green Island' / Green Island Ficus; 10' Ht., 5' Spr., 3" cal., full canopy
LI	36	Ligustrum lucidum / Glossy Privet; 10' Ht., 5' Spr., 2" cal., full canopy
N LI	4	Ligustrum lucidum 'Wax Leaf' / Wax Leaf Ligustrum; 12' Ht., 5' Spr., full canopy
N MF	8	Myrsine guianensis / African Boxwood; 8' Ht., 5' Spr., full canopy
N PI	30	Pinus elliottii var. densa / South Florida Slash Pine; 12-15' Ht., staggered min. 6" cal., full canopy
PAI	6	Parmentiera aculeata / Candle Tree; 8' Ht., 18" cal., full canopy
N SW	20	Swietenia mahagoni / West Indies Mahogany; 12' Ht., 5' Spr., 2" cal., full canopy
N SP	10	Sabal palmetto / Cabbage Palm; 12-20' Ht., staggered cal., min. 4" clear trunk, full canopy
N TO	5	Tabebuia heterophylla / Pink Trumpet Tree; 12' Ht., 5' Spr., full canopy
VIN	6	Veitchia montgomeryana / Montgomery Palm; 8-12' Ht. BH, 1'-3' BG, 2-3 RW, Staggered

NORTH
GRAPHIC SCALE
0 20 40
SCALE: 1"=20'
NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

NOTE:
CALL SUNSHINE ONE CALL PRIOR TO ANY TYPE OF EXCAVATION WORK

Sunshine811.com

FDOT GENERAL NOTES:

1. REFERENCE THE CURRENT VERSION OF THE FDOT SPECIFICATIONS AND DESIGN STANDARD INDEXES AS FOLLOWS:
   GOVERNING STANDARD PLANS: FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2018/19 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRS).
   GOVERNING STANDARD SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2018, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. CONTRACTOR SHALL REPAIR ALL DAMAGE DONE TO FDOT PROPERTY DURING DEMOLITION, RELOCATION AND/OR INSTALLATION ACTIVITIES AT HIS SOLE EXPENSE.
3. ANY PLANT MATERIAL SUBSTITUTION WITHIN OR IMPACTING THE FDOT RIGHT OF WAY WHETHER REQUESTED BY THE CONTRACTOR, OWNER, LANDSCAPE ARCHITECT OR OTHER WILL NEED TO SEE APPROVAL FROM THE FDOT DISTRICT OPERATIONS MANAGER.
4. OWNERSHIP OF ALL SUITABLE EXCAVATED MATERIALS, AS DETERMINED BY THE DEPARTMENT, SHALL REMAIN IN THE DEPARTMENT WITH A FINAL ACCEPTANCE OF THE PERMITTED PROJECT IS FULFILLED. EXCAVATED MATERIALS SHALL BE HANDLED BY THE PERMITTEE AT THEIR COST & EXPENSE FROM THE SITE TO THE PROPER DISPOSITIONS CENTER OR STOCKPILED IN THOSE AREAS AS DIRECTED BY THE DEPARTMENT, INCLUDING ASPHALT MILLINGS.

FDOT PLANTING NOTES:

1. FOR THE PORTION OF LANDSCAPE PLANT MATERIAL THAT WILL BE INSTALLED WITHIN THE FDOT RIGHT OF WAY LANDSCAPE INSTALLATION SHALL COMPLY WITH CURRENT FDOT MAINTENANCE SPECIFICATIONS SECTION [illegible]
2. FOR THE PORTION OF LANDSCAPE PLANT MATERIAL THAT WILL BE INSTALLED WITHIN THE FDOT RIGHT OF WAY REFER TO FDOT STANDARD PLANS INDEX 580-001 LANDSCAPE INSTALLATION, ONLINE REFERENCE [illegible]
3. CYPRESS MULCH IS NOT PERMITTED ON FDOT RIGHT OF WAY. MULCH PERMITTED TO BE USED ARE HARDWOOD MULCH CONTAINING NO CYPRESS PRODUCTS, RECYCLED MULCH OR APPROVED EQUAL, CERTIFIED BY THE MULCH AND SOIL COUNCIL (MSC). SUBMIT PROOF OF CERTIFICATION TO THE FDOT DISTRICT OPERATIONS TEAM MT LANDSCAPE INSPECTOR UPON INSPECTION.
4. SODDED AREAS WILL BE IN ACCORDANCE WITH STANDARD PLANS INDEX 570-010 AND STANDARD SPECIFICATIONS SECTIONS 162, 570, 981, 982, 983, 984 OF THE DEPARTMENT'S LATEST EDITION OF GOVERNING DESIGN STANDARDS AND STANDARD SPECIFICATIONS. ALL DISTURBED AREAS WILL BE SODDED WITHIN ONE (1) WEEK OF INSTALLATION OR AS DIRECTED WORK.

FDOT IRRIGATION NOTES:

1. THE IRRIGATION SYSTEM SHALL USE THE LOWEST QUALITY WATER AVAILABLE WHICH APPROPRIATELY AND SAFELY MEETS THE WATER NEEDS OF THE SYSTEM. STORM WATER, RECLAIM WATER, OR GREY WATER IRRIGATION SHALL BE USED WHENEVER POSSIBLE.
2. FDOT REQUIRES 24-HOUR EMERGENCY ACCESS TO WATER SOURCE.
3. CONTRACTOR SHALL PROVIDE FDOT DISTRICT OPERATIONS MANAGER WITH A SET OF "AS-BUILT" IRRIGATION PLANS.

FDOT SR-810 REQUIREMENTS:

- DESIGN SPEED: SR-810 (HILLSBORO BLVD) DESIGN SPEED = 45 MPH;
- VERTICAL CLEARANCE: MIN. PLANTING VERTICAL CLEARANCE PER FDOT MAINTENANCE RATING PROGRAM
  SIDEWALK = 8.5' VERTICAL CLEARANCE
  ROADWAY = 14.5' VERTICAL CLEARANCE

KEITH
Corporate Office
201 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400

Miami-Dade County
2760 NW 82 Avenue
Doral, Florida 33122

Palm Beach County
120 W Indiantal Highway, Suite 208
Lake Worth, Florida 33460

Orange County
2946 E Livingston Street
Orlando, Florida 32803

State of Florida Certificate of Authorization - 7978

BID / CONTRACT NO.:

REVISIONS

NO.	DESCRIPTION	DATE

LEDER HILLSBORO STORAGE

SCALE:	AS NOTED
DATE ISSUED:	MAY 21, 2019
DRAWN BY:	SR
DESIGNED BY:	MP
CHECKED BY:	MP

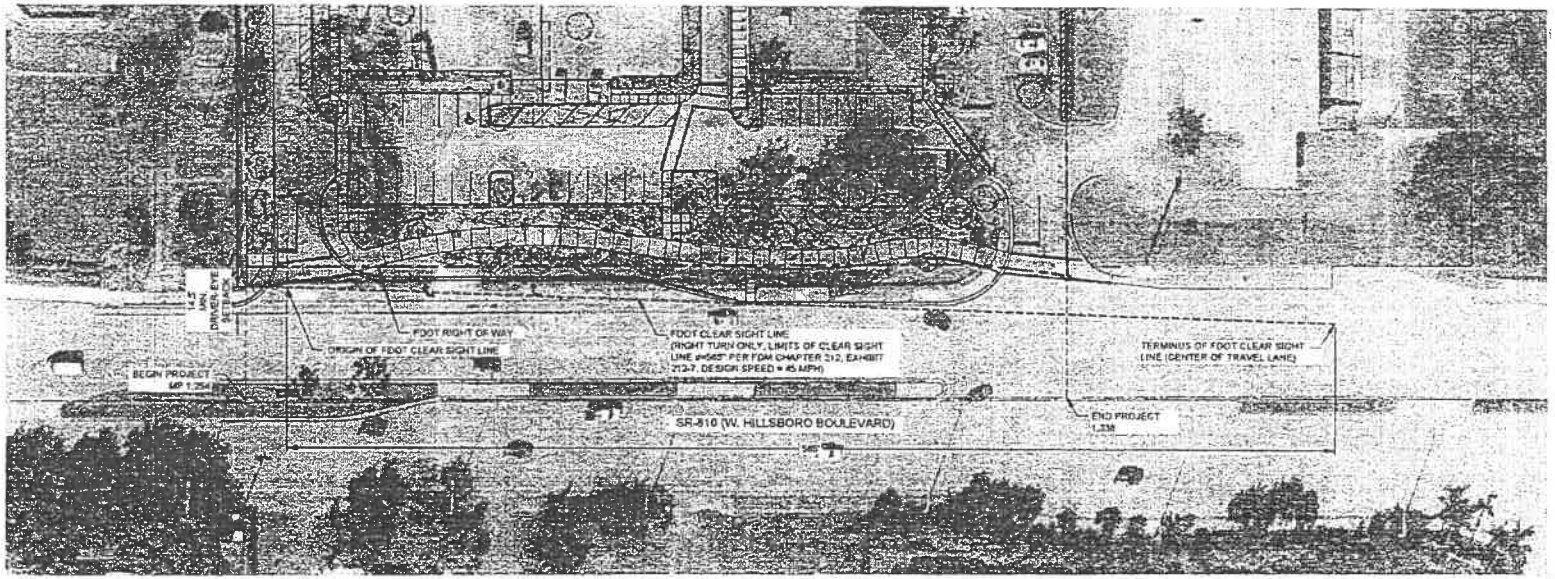
MICHAEL A. PHILLIPS, R.L.A.
FLORIDA REG. NO. LA0001540
(FOR THE FIRM)

SHEET TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
LP-101

PROJECT NO. 09675.00

FDOT LANDSCAPE PERMIT NO. 20194-491-60007



NORTH

GRAPHIC SCALE

0 30 60

SCALE: 1"=30'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

KEITH

Corporate Office
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400

Miami-Dade County
2152 NW 22 Avenue
Doral, Florida 33122

Palm Beach County
120 N Federal Highway, Suite 209
Lake Worth, Florida 33460

Orange County
2349 E Livingston Street
Orlando, Florida 32803

State of Florida Certificate of Authorization Number - 7126

FDOT CONTRACT NO.:

REVISIONS

NO.	DESCRIPTION	DATE

LEDER HILLSBORO STORAGE

SCALE:	AS NOTED
DATE ISSUED:	MAY 21, 2019
DRAWN BY:	SR
DESIGNED BY	MP
CHECKED BY	MP

SHEET TITLE

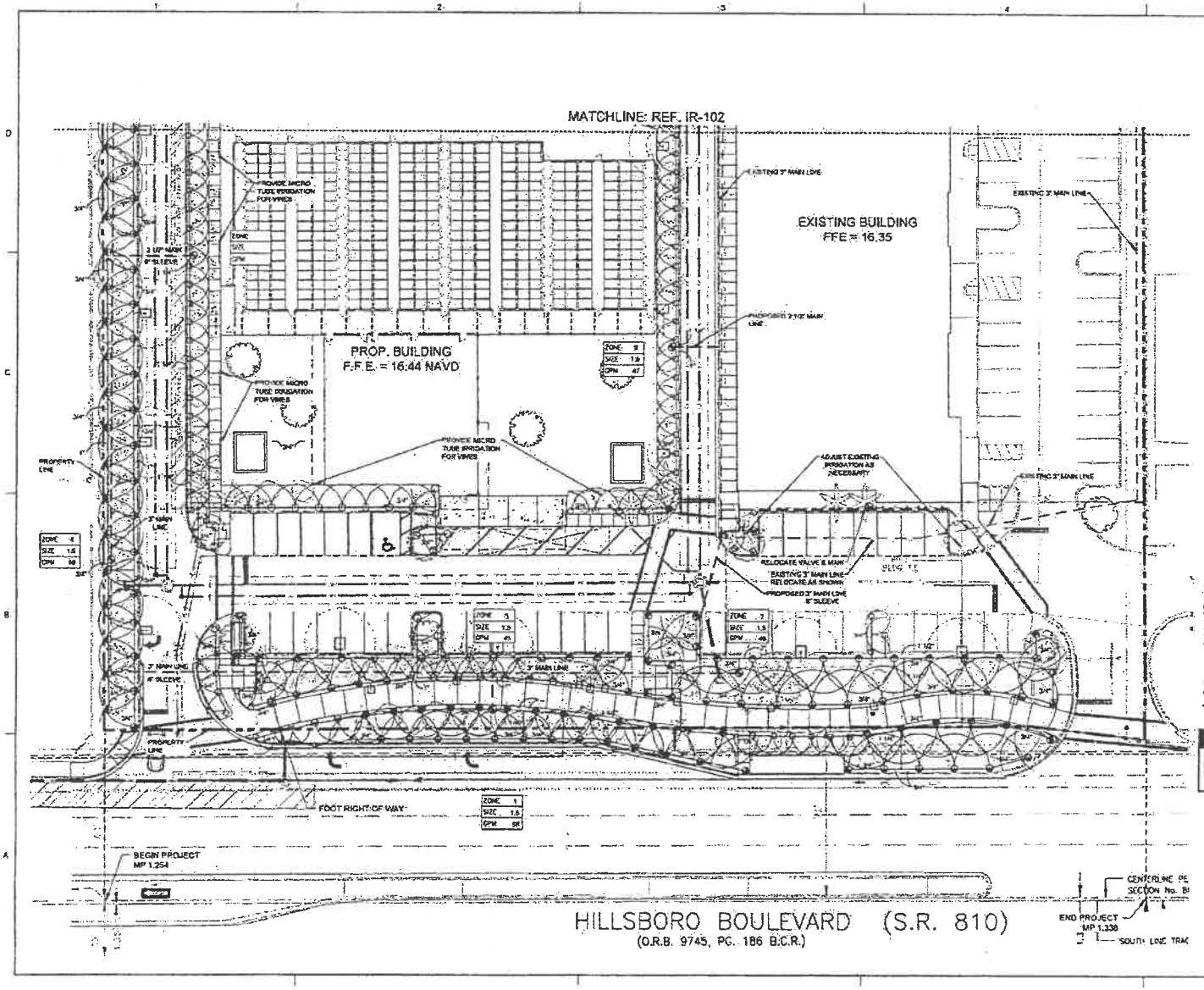
FDOT CLEAR SIGHT LINE EXHIBIT

SHEET NUMBER

LP-101

PROJECT NO. 09675.00

FDOT LANDSCAPE PERMIT NO. 2019-L-461-00007



FDOT IRRIGATION NOTES:

1. THE IRRIGATION SYSTEM SHALL USE THE LOWEST QUALITY WATER AVAILABLE WHICH ADEQUATELY AND SAFELY MEETS THE WATER NEEDS OF THE SYSTEM. STORM WATER, RECLAIM WATER, OR GREY WATER IRRIGATION SHALL BE USED WHENEVER POSSIBLE. FDOT REQUIRES 24-HOUR EMERGENCY ACCESS TO WATER SOURCE.
2. CONTRACTOR SHALL PROVIDE FDOT DISTRICT OPERATIONS MANAGER WITH A SET OF "AS-BUILT" IRRIGATION PLANS.

NOTE:
CALL SUNSHINE ONE CALL PRIOR TO ANY TYPE OF EXCAVATION WORK.

Sunshine811.com

NORTH

GRAPHIC SCALE
0 20 40
SCALE: 1"=20'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

KEITH
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Miami-Dade County
2100 NW 62 Avenue
Doral, Florida 33122

Palm Beach County
1200 N Federal Highway, Suite 200
Lake Worth, Florida 33460

Orange County
2649 E Livingston Street
Orlando, Florida 32803

State of Florida Certificate of Authorization Number - 7928

WO / CONTRACT NO.

REVISIONS

NO.	DESCRIPTION	DATE

LEDER
HILLSBORO
STORAGE

SCALE:	AS NOTED
DATE ISSUED:	MAY 21, 2019
DRAWN BY:	SR
DESIGNED BY:	MP
CHECKED BY:	MP

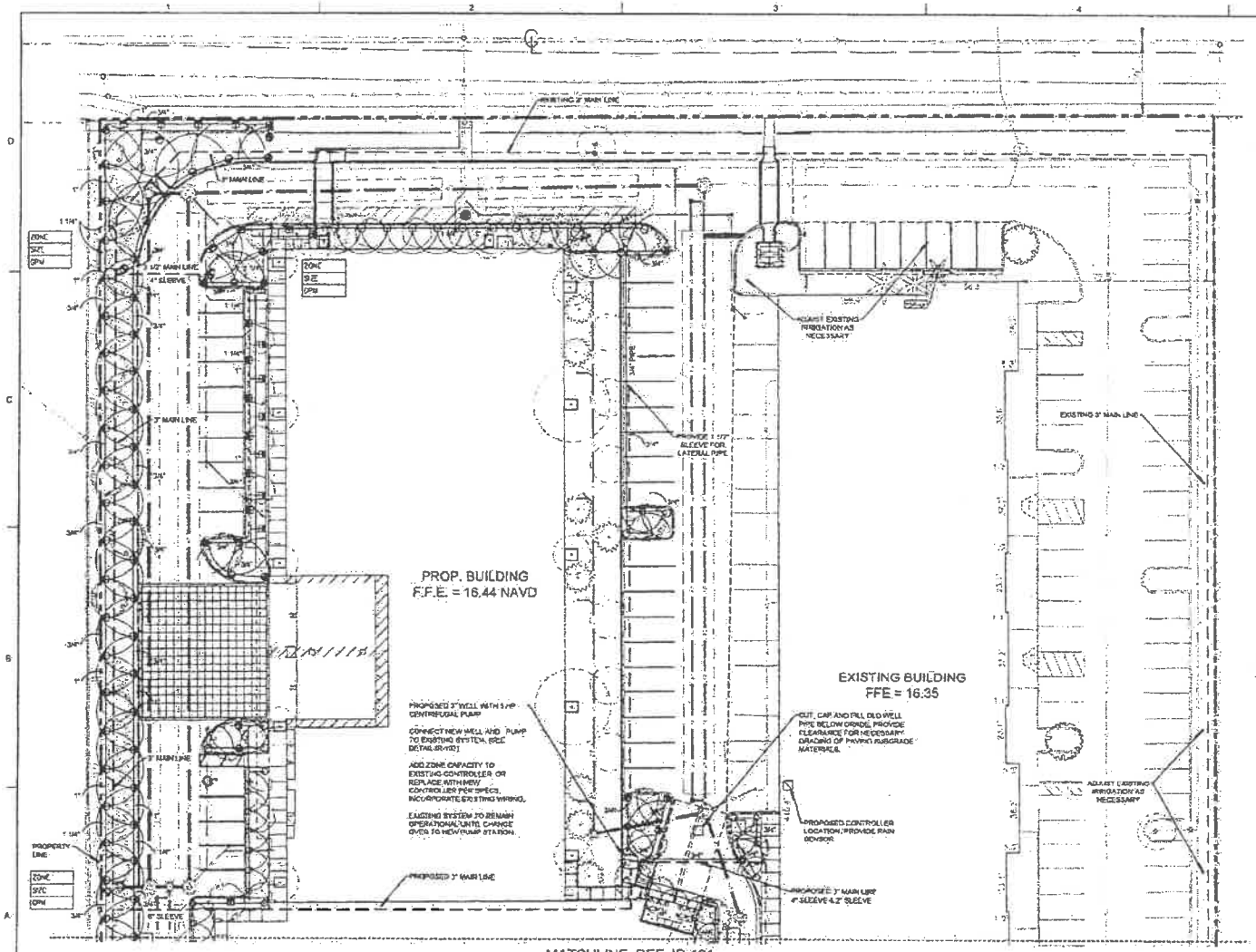
MICHAEL J. PHILLIPS, RLA
FLORIDA REG. NO. LA0001540
(FOR THE PRINT)

SHEET TITLE
IRRIGATION PLAN

SHEET NUMBER
IR-101

PROJECT NO 09675.00

FDOT LANDSCAPE PERMIT NO. 2019-L-481-00007



FDOT IRRIGATION NOTES:

1. THE IRRIGATION SYSTEM SHALL USE THE LOWEST QUALITY WATER AVAILABLE WHICH ADEQUATELY AND SAFELY MEET THE WATER NEEDS OF THE SYSTEM, STORM WATER, RECLAIM WATER, OR GREY WATER. IRRIGATION SHALL BE USED WHEN NEVER POSSIBLE. FDOT REQUIRES TURNOVER FROM DEVELOPER TO THE WATER SOURCE.
2. CONTRACTOR SHALL PROVIDE FDOT DISTRICT OPERATIONS MANAGER WITH A SET OF "AS- BUILT" IRRIGATION PLANS.

NOTE:
CALL SUNSHINE ONE CALL PRIOR TO ANY TYPE OF EXCAVATION WORK.

Sunshine811.com

NORTH

GRAPHIC SCALE

0 20 40

SCALE: 1"=20'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

KEITH
Corporate Office
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400

Miami-Dade County
2969 NW 83 Avenue
Doral, Florida 33122

Palm Beach County
720 N Federal Highway, Suite 206
Lake Worth, Florida 33460

Orange County
7649 E Livingston Pkwy
Orlando, Florida 32832

State of Florida Certificate of Authorization Number - 7923

REVISIONS

NO.	DESCRIPTION	DATE

LEDER HILLSBORO STORAGE

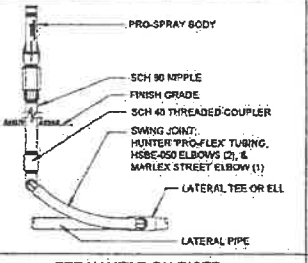
SCALE:	AS NOTED
DATE ISSUED:	MAY 21, 2019
DRAWN BY:	SR
DESIGNED BY:	MP
CHECKED BY:	MP

SHEET TITLE
IRRIGATION PLAN

SHEET NUMBER
IR-102

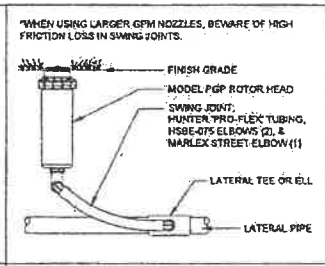
PROJECT NO: 09675.00

FDOT LANDSCAPE PERMIT NO. 2019-L-491-00007



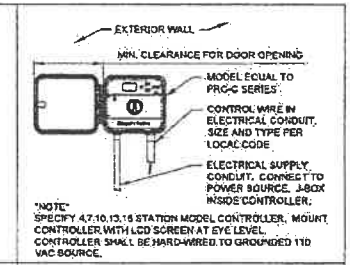
SPRAY HEAD ON RISER

Hunter IRRIGATION DETAIL NOT TO SCALE



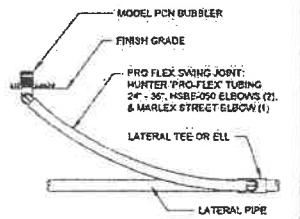
PGP ROTOR HEAD

Hunter IRRIGATION DETAIL NOT TO SCALE



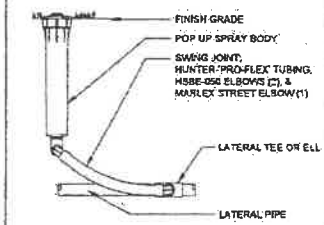
PRO-C CONTROLLER

Hunter IRRIGATION DETAIL NOT TO SCALE



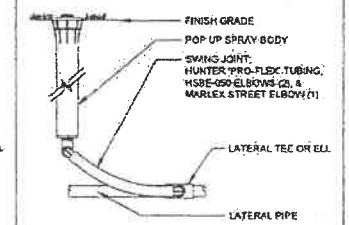
PCN BUBBLER

IRRIGATION DETAIL NOT TO SCALE



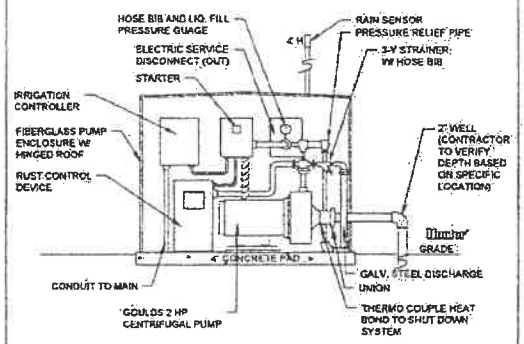
12" POP-UP SPRAY HEAD

Hunter IRRIGATION DETAIL NOT TO SCALE



6" POP-UP SPRAY HEAD

Hunter IRRIGATION DETAIL NOT TO SCALE



NOTE: VERIFY ELECTRIC SUPPLY/PHASE/VOLTAGE & PROVIDE SURGE PROTECTION.

PUMP STATION-WELL

IRRIGATION DETAIL NOT TO SCALE

1. CUT, CAP AND FILL OLD WELL PIPE BELOW GRADE PROVIDE CLEARANCE FOR NECESSARY GRADING OF PAVING, SUBGRADE, AND BASES.
2. CONNECT NEW WELL AND PUMP TO EXISTING SYSTEM. (SEE DETAIL)
3. ADD 2HP CAPACITY TO EXISTING CONTROLLER OR REPLACE WITH NEW CONTROLLER PER SPECS. INCORPORATE EXISTING WIRING.
4. EXISTING SYSTEM TO REMAIN OPERATIONAL UNTIL CHANGE OVER TO NEW PUMP STATION.

FDOT IRRIGATION NOTES:

1. THE IRRIGATION SYSTEM SHALL USE THE LOWEST QUALITY WATER AVAILABLE WHICH ADEQUATELY AND SAFELY MEETS THE WATER NEEDS OF THE SYSTEM. STORM WATER, RECLAIM WATER, OR GREY WATER IRRIGATION SHALL BE USED WHENEVER POSSIBLE.
2. FDOT RESERVES JURISDICTIONAL RIGHTS TO ALL WATER SOURCES.
3. CONTRACTOR SHALL PROVIDE FDOT DISTRICT OPERATIONS MANAGER WITH 1 SET OF "AS-BUILT" IRRIGATION PLANS.

NOTE:
CALL SUNSHINE ONE CALL PRIOR TO ANY TYPE OF EXCAVATION WORK.

Sunshine811.com

IRRIGATION LEGEND

SYMBOL	QTY	DESCRIPTION
	6	HUNTER PGP 6" POP-UP ROTOR HEADS
	1	HUNTER SPRAY NOZZLES: 15' RADIUS, WITH PRO SPRAY BODY
	1	HUNTER SPRAY NOZZLES: 12' RADIUS, WITH PRO SPRAY BODY
	1	HUNTER SPRAY NOZZLES: 10' RADIUS, WITH PRO SPRAY BODY
	1	HUNTER SPRAY NOZZLES: 8' RADIUS, WITH, WITH PRO SPRAY BODY
	6	HUNTER END SPRAY - ESS 15, WITH PRO SPRAY BODY
	19	HUNTER WIDE SPRAY 360/15, WITH PRO SPRAY BODY
	17	HUNTER MULTI-STREAM SHRUB SPRAY WITH BENDER
	166	HUNTER BUBBLER PCN SERIES
	9	2GPM VALVE, ELECTRONIC, EQUAL TO RBY150, SIZE PER PLAN, IN AMETEK OR CARSON 12" STD VALVE BOX
	12	4INCH BRASS GATE VALVE, SAME SIZE AS MAINLINE, IN 8" SLIP 48 PVC COLLAR EXTENTION AND VALVE BOX
	1	HUNTER MANUAL IRRIGATION CONTROLLER EQUAL TO PRO-C SERIES WITH SOLAR SYNC TO BE LOCATED PER OWNER'S PREFERENCE.
	280 LF	SLEEVES: SCH 40 PVC OR RATED EQUAL, CLASS SLEEVES TO BE MIN. 24" AND MAX. 36" DEEP
	1620 LF	MAIN LINE: SCH 40 PVC WITH SCH 80 PVC FITTINGS THRUST BLOCKS AT STRESS POINTS, SEE PIPE PLAN
	2800 LF	LATERAL PIPE: PVC CLASS 200 PVC FITTINGS AND GLUE JOINTS PER SPECIFICATIONS

* QUANTITIES ARE APPROXIMATE AND SHOULD BE CONFIRMED BY IRRIGATION CONTRACTOR

IRRIGATION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL REQUIRED TO MAKE THE SYSTEM FUNCTION PROPERLY. ALL IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ALSO STATE AND/OR LOCAL CODES.
2. IRRIGATION PLANS ARE SCHEMATIC AND DRAWN FOR GRAPHIC CLARITY. ALL PIPING BELOW PAVEMENT SHALL BE SLEEVED. LAYOUT OF IRRIGATION SYSTEM SHALL BE COORDINATED WITH CORRESPONDING LANDSCAPE PLAN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL UNDERGROUND UTILITY PROVIDERS TO VERIFY LOCATIONS. THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITE PRIOR TO INSTALLATION AND BECOME FAMILIAR WITH EXISTING CONDITIONS.
4. VALVE LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR SITE CONDITIONS. EACH VALVE SHALL BE INSTALLED IN A AMETEK OR CARSON VALVE BOX. THE FLOW ADJUSTMENT FEATURE WILL BE USED TO BALANCE PRESSURE THROUGHOUT THE SYSTEM.
5. PIPING SHALL BE SIZED TO MINIMIZE FRICTION LOSS AND MAINTAIN FLOW VELOCITY BELOW 5 FPS.
6. THE IRRIGATION CONTROLLER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PROPER GROUNDING EQUIPMENT AND SURGE PROTECTION SHALL BE PROVIDED. A RAIN SENSOR SHALL BE INSTALLED TO OVERRIDE THE CONTROLLER.
7. ALL HEADS ON RISERS SHALL BE SET AT THE HEIGHT OF ADJACENT PLANT MATERIAL.
8. SPRINKLER LOCATIONS, ADJACENT TO PAVEMENT, STRUCTURES, FENCES, ETC. SHALL BE OFFSET AS FOLLOWS: 12" MIN FOR POP-UP MIST HEADS, 18" FOR SHRUB HEADS, 24" FOR ROTOR HEADS AND TYPICALLY 5 FEET FOR ROTORS ALONG UNCURBED ROADWAYS.
9. ALL SLEEVING SHALL BE SCH 40 PVC TO SIZE INDICATED ON PLAN, OR 6" NOT INDICATED, A MIN. OF 3 PIPE SIZES LARGER THAN SUPPLY LINE CONTAINED. ALL SLEEVES SHALL BE INSTALLED A MIN. OF 24" BELOW FINISH GRADE.
10. CONTROL WIRES SHALL BE UL APPROVED PE IRRIGATION CONTROL WIRE. USE 14 GAGE CONTROL WIRE AND 12 GAGE GROUND WIRE. WIRE SHALL BE BUNDLED AND ATTACHED TO THE MAIN LINE W/ TAPE/ON OR THROUGH WIRE SLEEVES AT PAVEMENT CROSSINGS 24" BELOW FIN. GRADE. ALL SPLICES SHALL BE MADE WITH WATERPROOF DIRECT-BURIAL SPLICE KITS AND CONTAINED IN VALVE BOXES. TWO EXTRA CONTROL WIRES SHALL BE INSTALLED TO THE FURTHEST VALVES IN EACH DIRECTION FROM THE CONTROLLER.
11. PIPING IN MEDIAN PLANTING AREAS, PARKING ISLANDS AND PLANTERS SHALL BE SET TO ONE SIDE TO ALLOW ROOM FOR ROOT BALLS. PIPE AS INDICATED ON PLAN IS SCHEMATIC AND SHOULD BE ADJUSTED FOR FIELD CONDITIONS.
12. ALL GLUE JOINTS SHALL BE CLEANED, SANDED, AND TREATED WITH A COLORED PVC ETCH PRIMER AND JOINED USING A SOLVENT CONFORMING WITH ASTM D2564.
13. SYSTEM MAIN SIZE 3/4" SHALL BE CLASS 200 PVC. SYSTEM PIPE SIZE 1" OR GREATER SHALL BE CLASS 160 PVC. SYSTEM MAIN ALL BE SCH. 40 PVC TO SIZE INDICATED ON PLAN. ALL FITTINGS WILL BE SOLVENT WELD SCH 40 PVC. MAIN LINE SHALL HAVE 24" MINIMUM COVER; ALL OTHER PIPING WILL HAVE 12" MIN. COVER. ALL BACKFILL FOR PIPE TRENCHES SHALL BE CLEAN AND FREE OF FOREIGN DEBRIS AND SHARP OBJECTS. BACKFILLED TRENCHES SHALL BE PROPERLY COMPACTED. ALL MAIN LINES WILL BE INSTALLED A MIN. OF 5' FROM ANY TREE OR PALM.
14. WATERING TIME PER STATION WILL BE DETERMINED IN THE FIELD AND PER LOCAL REQUIREMENTS. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PRECIPITATION RATES OF SPRINKLERS SPECIFIED.
15. IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE WITH SIDE OVERLAP. MIN. PROVIDE BUBBLERS FOR ALL TREE AND ALLOCATED TREES AND PALMS.
16. RUST CONTROL SYSTEM TO BE INSTALLED WITH PUMP STATION BY FROM WELL).
17. THE IRRIGATION SYSTEM IN THE RIGHT-OF-WAY IS TO INCORPORATE LOW TRAJECTORY SPRAY HEADS TO MINIMIZE OVERSPRAY.
18. INSPECTIONS REQUIRED FOR: ROUGH, SLEEVES, MAINLINE PRESSURE TEST, AND FINAL.
19. AS-BUILT DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND GIVEN TO THE OWNER PRIOR TO FINAL ACCEPTANCE.

KEITH
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101 East Atlantic Boulevard
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Miami-Dade County
2180 NW 87 Avenue
Doral, Florida 33172

Palm Beach County
120 N Federal Highway, Suite 208
Lake Worth, Florida 33460

Orange County
2548 E Livingston Road
Orlando, Florida 32803

State of Florida Certificate of Authorization Number - 1078

PROJECT NO.

REVISIONS

NO.	DESCRIPTION	DATE

LEDER HILLSBORO STORAGE

SCALE:	AS NOTED
DATE ISSUED:	MAY 21, 2019
DRAWN BY:	SR
DESIGNED BY:	MP
CHECKED BY:	MP

MICHAEL A. PHILLIPS, RLA
FLORIDA REG. NO. LA0001540
(FOR THIS SHEET)

SHEET TITLE

IRRIGATION DETAILS AND LEGEND

SHEET NUMBER

IR-103

PROJECT NO. 09675.00

FDOT LANDSCAPE PERMIT NO. 2019-L-M01-00007

RESOLUTION NO. 2019-253

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF COCONUT CREEK, FLORIDA, AUTHORIZING THE CITY MANAGER, OR DESIGNEE, TO EXECUTE THE ATTACHED SEVENTH AMENDMENT TO THE INCLUSIVE MEMORANDUM OF AGREEMENT BETWEEN THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AND THE CITY OF COCONUT CREEK FOR THE MAINTENANCE OF LANDSCAPE IMPROVEMENTS ALONG VARIOUS STATE ROADS; PROVIDING FOR SEVERABILITY; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, in May of 2009, the City entered into an Inclusive Memorandum of Agreement with the Florida Department of Transportation (FDOT) for the purpose of maintaining certain landscape improvements on various State Roads, including Hillsboro Boulevard; and

WHEREAS, Leder Hillsboro CO LTD wishes to install landscape improvements as shown and listed in the attached amendment to said Inclusive Memorandum of Agreement, located within right-of-way for Hillsboro Boulevard and controlled by FDOT; and

WHEREAS, FDOT will only accept an agreement for said work and maintenance from the City as the responsible public entity; and

WHEREAS, Leder Hillsboro CO LTD has agreed to accept responsibility to complete and maintain the improvements by separate agreement.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF COCONUT CREEK, FLORIDA:

Section 1: That the foregoing "WHEREAS" clauses are hereby ratified and confirmed as being true and correct and are hereby made a specific part of this resolution.

Section 2: That the City Commission has reviewed and hereby approves the attached Seventh Amendment to the Inclusive Agreement between FDOT and the City.

Section 3: That the City Manager, or designee, is hereby authorized to execute the attached Seventh Amendment to the Inclusive Memorandum of Agreement between FDOT and the City.

Section 4: That if any clause, section, other part or application of this resolution is held by any court of competent jurisdiction to be unconstitutional or invalid, in part or in application, it shall not affect the validity of the remaining portion or applications of this resolution.

Section 5: That this resolution shall be in full force and effect immediately upon its adoption.

Adopted this 14th **day of** November **, 2019.**

Sandra L. Welch, Mayor

Attest:

Leslie Wallace May, City Clerk

Welch	Aye
Sarbone	Absent
Tooley	Aye
Belvedere	Aye
Rydell	Aye

\\pdc\data\Development Services\Common\Documents\PLANNING & ZONING\Project Coordinator\Resolutions\RES 2019-253 FDOT and City (Leder Hillsboro Blvd).docx
Ae 10/2/19

DocuSign Envelope ID: 039CBC99-7158-4B1D-B733-413A2ED40B72

SECTION No.(s): **861200000**
S.R. No.(s): **810**
Permit No: **2022-L-491-00004**
COUNTY: **BROWARD**

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

THIS AMENDMENT Number Eight (8) to the Agreement dated May 27, 2009, made and entered into this 16th day of February 2024 by and between the State of Florida Department of Transportation hereinafter called the DEPARTMENT and the **CITY OF COCONUT CREEK**, a municipal subdivision of the State of Florida, hereinafter called the AGENCY.

W I T N E S S E T H

WHEREAS, the parties entered into the Landscape Inclusive Maintenance Memorandum of Agreement dated, May 27, 2009 for the purpose of maintaining the landscape improvements by the AGENCY on various roads including State Road 810 (Hillsboro Boulevard); and,

WHEREAS, the DEPARTMENT and the AGENCY have agreed to add additional landscape to be installed on State Road 810 (Hillsboro Boulevard) in accordance with the above referenced Agreement; and,

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

1. Pursuant to Page 6, Paragraph 7 of the Landscape Inclusive Maintenance Memorandum of Agreement for State Road 810 (Hillsboro Boulevard) dated May 27, 2009, the DEPARTMENT will allow the AGENCY to construct additional landscape improvements or to modify an improvement located as indicated in **Exhibit "A"**, State Road 810 (Hillsboro Boulevard) from M.P. 0.491 to M.P. 0.998. In accordance with the plans attached as **Exhibit "B".**

2. The AGENCY shall agree to maintain the additional landscape improvements, including the meandering concrete sidewalk, in the Agreement described above in accordance with Part I of Exhibit "C", Maintenance Plan, of the original agreement and Part II as follows:

DocuSign Envelope ID: 039CBC99-7158-4B1D-B733-413A2ED40B72

II. SPECIFIC PROJECT SITE MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS

1. The Hillsboro Boulevard trail landscape design is an extension of the natural landscape of the adjacent preserve areas. As such, there is no irrigation proposed, and the native plantings are to be maintained in their natural form, except as need to maintain clear sight lines and encroachment over adjacent curbs and paving. No fertilizers are to be used on the north side of the trail adjacent to the preserve. These areas are outside the FDOT R.O.W.

2. Trees are limited to small multi-trunked trees, pines and palms and are to be maintained at mature height and spread. (Refer to Part I Pruning, for clear sight window and vertical clear zone pruning requirements.)

3. Remove suckering growth from base of multi-trunked trees only if suckering impacts adjacent paving or clear sight lines.

4. To maintain the intended appearance of all palms, apply the latest palm fertilizer recommended by the University of Florida IFAS Extension per the manufacturer's specifications. Fertilizers shall be applied only within the FDOT R.O.W.

5. To maintain the intended appearance of all shrubs or turf grass, apply*:* the latest fertilizer recommended by the University of Florida IFAS Extension per the manufacturer's specifications. Fertilizers shall be applied only within the FDOT R.O.W.

6. Do not remove fronds from self-cleaning palms, unless damaged. Palms with persistent fronds shall only have dead fronds removed, do not remove any green fronds. If it is deemed necessary to prune a palm's fronds, no fronds shall be trimmed above 3 o'clock and 9 o'clock on the horizontal plain.

7. Shrub horizontal growth shall be maintained to prevent foliage from growing beyond the limits of the planting areas shown on the plan. Maintain a 12" setback from the foliage to the edge of curb, pavement, sidewalk and/or other hardscape improvements. Groundcover horizontal growth shall be maintained are 4" from the edge of curb, pavement, sidewalk and/or other hardscape improvements

8. Maintain the vertical height of:
   All groundcovers within clear sight triangle at a maximum mature height of 18" or less.
   All shrubs outside clear sight triangle at natural height where possible, with maximum height of 4'-6", full to ground
   Maintain all ornamental grasses at mature height. Trim down to 12" one time per year in winter.

9. Inspect groundcovers and shrubs on a monthly basis for maintaining full ground coverage.

10. Evaluate plant material on a monthly basis for pests, diseases, drought stress or general decline. If required, follow the integrated pest management program established by the Agency to ensure healthy plants.

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

LIST OF EXHIBITS

Exhibit A - Landscape Improvements Maintenance Boundaries Limits
Exhibit B - Landscape Improvement Plans

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

CITY OF COCONUT CREEK

By: _____
Karen M. Brooks, City Manager

Attest: _____
(SEAL) Joseph J. Kavanagh, City Clerk

Legal Review _____ Date 1/25/24
Terrill C. Pyburn, City Attorney

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

DocuSigned by:
By: John Krane
A534C9FDF7084A5...
~~Steven Braun, P.E.~~ John Krane, P.E.
Director of Transportation Development

Attest:
DocuSigned by:
Alia E. Channel
E14549BD681D471...
(SEAL)
Alia Channel, Executive Secretary

Legal Review _____ Date
DocuSigned by:
Francine Steelman
43DE6BB3D3BF464...
Office of the General Counsel
02/16/2024 | 11:06 AM EST

DocuSign Envelope ID: 039CBC99-7158-4B1D-B733-413A2ED40B72

SECTION No.(s): **861200000**
S.R. No.(s): **810**
Permit No: **2022-L-491-00004**
COUNTY: **BROWARD**

EXHIBIT A

LANDSCAPE IMPROVEMENTS

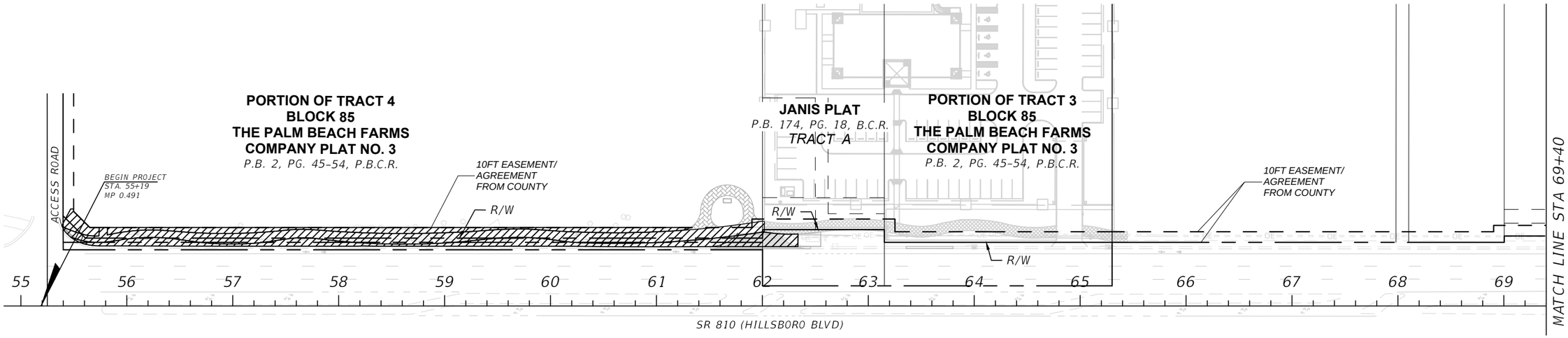
MAINTENANCE BOUNDARIES LIMITS

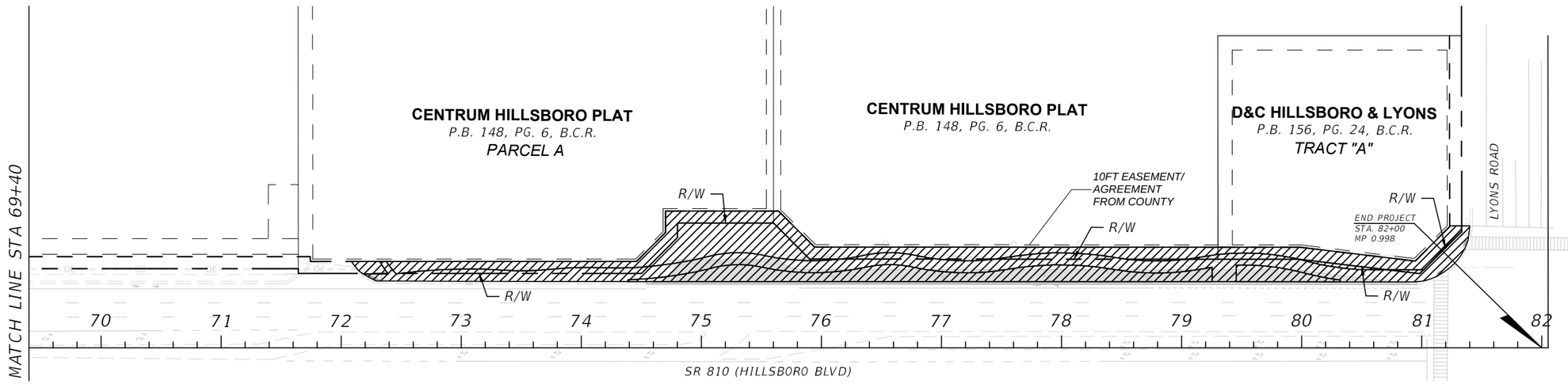
I. ORIGINAL LIMITS OF INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT FOR State Road 810 (Hillsboro Boulevard):
M.P. 0.000 (East of State Road 7) to M.P. 1.997 (East of State Road 91)

II. LIMITS OF LANDSCAPE IMPROVEMENTS FOR THIS PROJECT *:
State Road 810 (Hillsboro Boulevard)
from Access Road (M. P. 0.491) to Lyons Road (M.P. 0.998)

III. LANDSCAPE IMPROVEMENTS MAINTENANCE RESPONSIBILITIES MAP FOR THIS PROJECT:
Please See Attached*

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





LEGEND:

LIMITS OF LANDSCAPE MAINTENANCE BY CITY OF COCONUT CREEK

LANDSCAPE IMPROVEMENTS MAINTENANCE BOUNDARY MAP

CITY OF Coconut Creek
STATE ROAD 810 (Hillsboro Blvd)
FDOT PERMIT 2022-L-491-00004
Plans Approved June 9, 2022

DocuSign Envelope ID: 039CBC99-7158-4B1D-B733-413A2ED40B72

SECTION No.(s): **861200000**
S.R. No.(s): **810**
Permit No: **2022-L-491-00004**
COUNTY: **BROWARD**

EXHIBIT B

LANDSCAPE IMPROVEMENT PLANS

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

Please see attached plans prepared by:

Mohan Gopalakrishna, PE Carnahan, Proctor & Cross	June 9, 2022	Sheets: 1, 2, 5, 6
Jill Cohen, RLA JBC Planning & Design	June 8, 2022	Sheets: TDP-8 to TDP-10 LD-0 to LD-16

DocuSign Envelope ID: 039CBC99-7158-4B1D-B733-413A2ED40B72

CONTRACT PLANS COMPONENTS

SIDEWALK IMPROVEMENT PLANS

CITY OF COCONUT CREEK

CONTRACT PLANS

HILLSBORO BOULEVARD
W. HILLSBORO BLVD, COCONUT CREEK, FL
SIDEWALK IMPROVEMENTS

SIDEWALK IMPROVEMENT PLANS

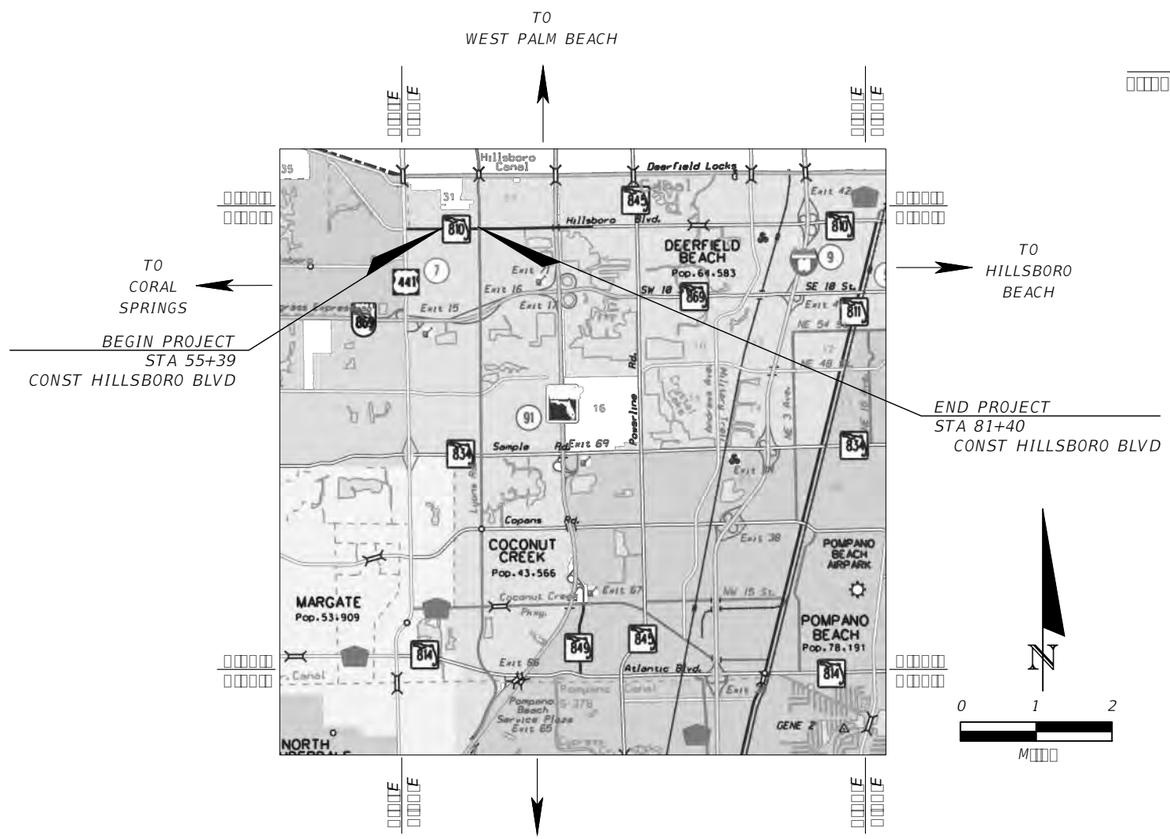
INDEX OF SIDEWALK IMPROVEMENT PLANS

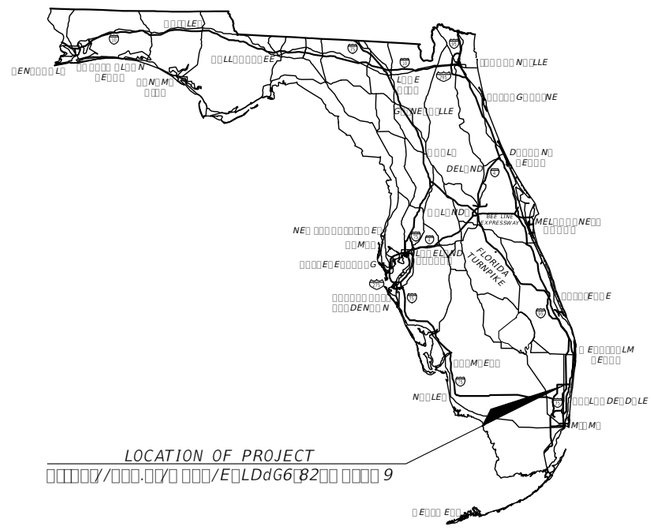
SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6	SIDEWALK IMPROVEMENT GENERAL NOTES
7-10	SIDEWALK IMPROVEMENT PLAN
11	DRAINAGE STRUCTURES
12-22	CROSS SECTIONS
23-24	STORMWATER POLLUTION PREVENTION PLAN
25	EROSION CONTROL PLAN
26	SIGNING AND PAVEMENT MARKING GENERAL NOTES
27-30	SIGNING AND PAVEMENT MARKING PLAN
31	PEDESTRIAN LIGHTING TABULATION OF QUANTITIES
32	PEDESTRIAN LIGHTING GENERAL NOTES
33	POLE DATA TABLE AND LEGEND
34-38	PEDESTRIAN LIGHTING PLAN
39-40	SERVICE POINT DETAILS
41-45	PEDESTRIAN LIGHTING DETAILS
46-49	BUS STOP SHELTER DETAILS
50-55	SPECIFIC PURPOSE SURVEY

INCLUDED FOR INFORMATIONAL PURPOSES ONLY

INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
TDP-1 - TDP-7	TREE DISPOSITION PLAN
TDP-8 - TDP-10	TREE DISPOSITION DATA
LD-0	PROJECT LAYOUT
LD-1 - LD-7	LANDSCAPE PLAN
LD-8 - LD-9	LANDSCAPE NOTES
LD-10 - LD-14	LANDSCAPE DETAILS
LD-15	PLANT SCHEDULE
LD-16	SUMMARY OF QUANTITIES





SIDEWALK IMPROVEMENT PLANS ENGINEER OF RECORD

MOHAN GOPALAKRISHNA, PE, PTOE
P.E. NO. 60720
CARNAHAN PROCTOR & CROSS, INC.
814 S. MILITARY TRAIL
DEERFIELD BEACH, FL 33442
TEL. NO. 954-972-3959
CERTIFICATE OF AUTHORIZATION NO. 2936

CITY OF COCONUT CREEK PROJECT MANAGER

MICHAEL RIGHETTI

COCONUT CREEK
BUTTERFLY CAPITAL OF THE WORLD®

GOVERNING STANDARD PLANS
FLORIDA DEPARTMENT OF TRANSPORTATION, FY2021-22 STANDARD PLANS FOR ROAD CONSTRUCTION AND BRIDGE CONSTRUCTION IN RURAL AREAS (Ir).

STANDARD PLANS FOR ROAD CONSTRUCTION AND BRIDGE CONSTRUCTION IN Ir
https://d.dot.fl/d/S/d/S.pdf

GOVERNING STANDARD SPECIFICATIONS
FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2021 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
https://d.dot.fl/r/I/d/S/B

FISCAL YEAR	SHEET NO.
21	1

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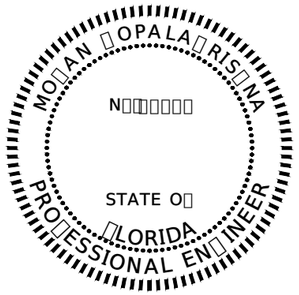

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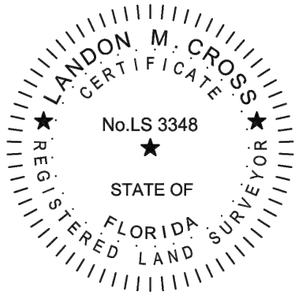
MOHAN GOPALAKRISHNA, PE, PTOE
LICENSE NO. 60720
CARNAHAN PROCTOR & CROSS, INC.
814 S. MILITARY TRAIL
DEERFIELD BEACH, FL 33442

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

SIDEWALK IMPROVEMENT PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6	SIDEWALK IMPROVEMENT GENERAL NOTES
7-10	SIDEWALK IMPROVEMENT PLAN
11	DRAINAGE STRUCTURES
12-22	CROSS SECTIONS
23-24	STORMWATER POLLUTION PREVENTION PLAN
25	EROSION CONTROL PLAN
26	SIGNING AND PAVEMENT MARKING GENERAL NOTES
27-30	SIGNING AND PAVEMENT MARKING PLAN
31	PEDESTRIAN LIGHTING TABULATION OF QUANTITIES
32	PEDESTRIAN LIGHTING GENERAL NOTES
33	POLE DATA TABLE AND LEGEND
34-38	PEDESTRIAN LIGHTING PLAN
39-40	SERVICE POINT DETAILS



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LANDON M. CROSS, P.S.M.
CERTIFICATE NO. LS 3348
CARNAHAN PROCTOR & CROSS, INC.
814 S. MILITARY TRAIL
DEERFIELD BEACH, FL 33442

THE ABOVE NAMED REGISTERED LAND SURVEYOR SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 5J-17.062, F.A.C.

SURVEY PLANS

SHEET NO.	SHEET DESCRIPTION
50-55	SPECIFIC PURPOSE SURVEY

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JILL BETH COHEN
LICENSE NO. LA0001600
JBC PLANNING & DESIGN, INC.
1312 MAJESTY TERRACE
WESTON, FL 33327

THE ABOVE NAMED REGISTERED LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G105-11.011, F.A.C.

LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
TDP-1 - TDP-7	TREE DISPOSITION PLAN
TDP-8 - TDP-10	TREE DISPOSITION DATA
LD-0	SITE PLAN
LD-1 - LD-7	LANDSCAPE PLAN
LD-8 - LD-9	LANDSCAPE NOTES
LD-10 - LD-14	LANDSCAPE DETAILS
LD-15	PLANT SCHEDULE
LD-16	SUMMARY OF QUANTITIES

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
----	----		

MOHAN GOPALAKRISHNA, PE, PTOE
P.E. LICENSE NUMBER 60720
CARNAHAN PROCTOR & CROSS, INC.
814 S. MILITARY TRAIL
DEERFIELD BEACH, FL 33442
CERTIFICATE OF AUTHORIZATION 2936

CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

SIGNATURE SHEET

SHEET NO. 2

Tyrone Cochran 6/8/2022 1:14:23 PM P:\Projects\2020\200304 - Hillsboro Blvd Road Diet\CAD\SIGNRD01.dgn

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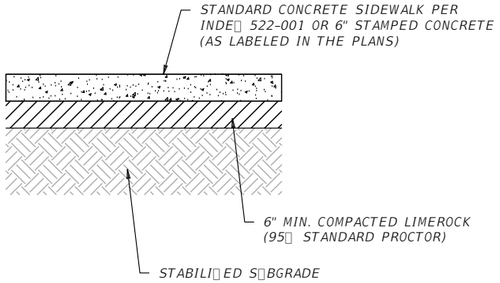

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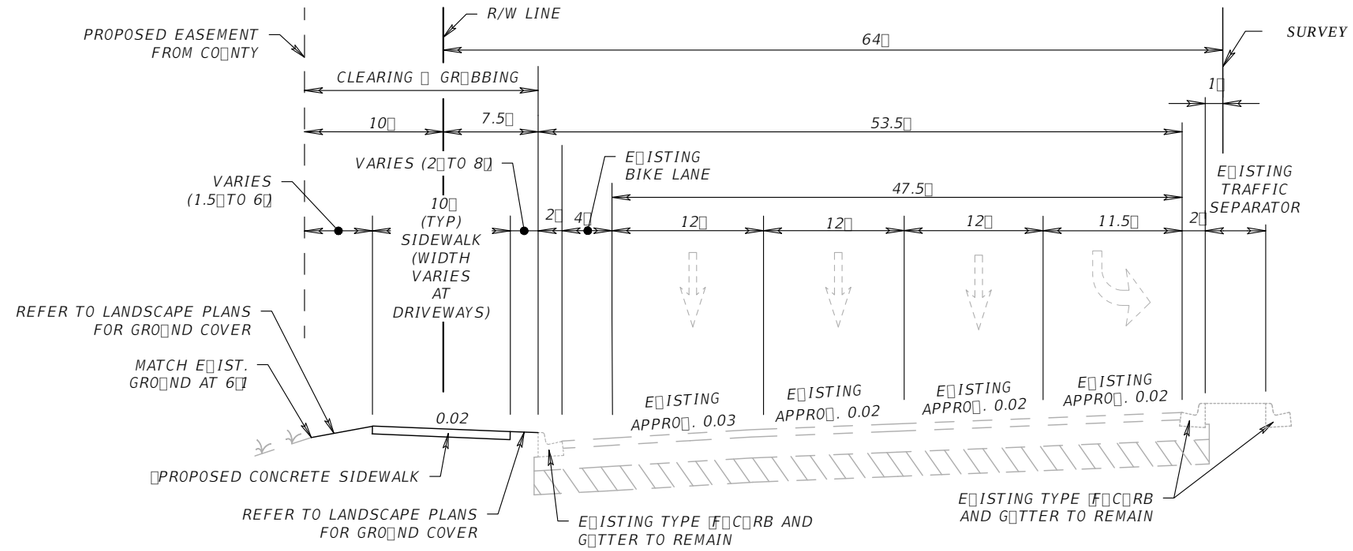

PER INDE 522-001, 6" THICK CONCRETE FOR SIDEWALKS AND C RB RAMPS

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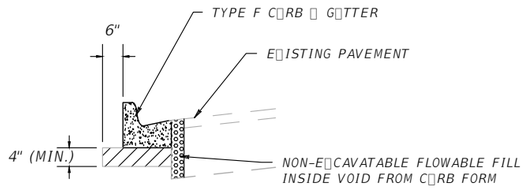

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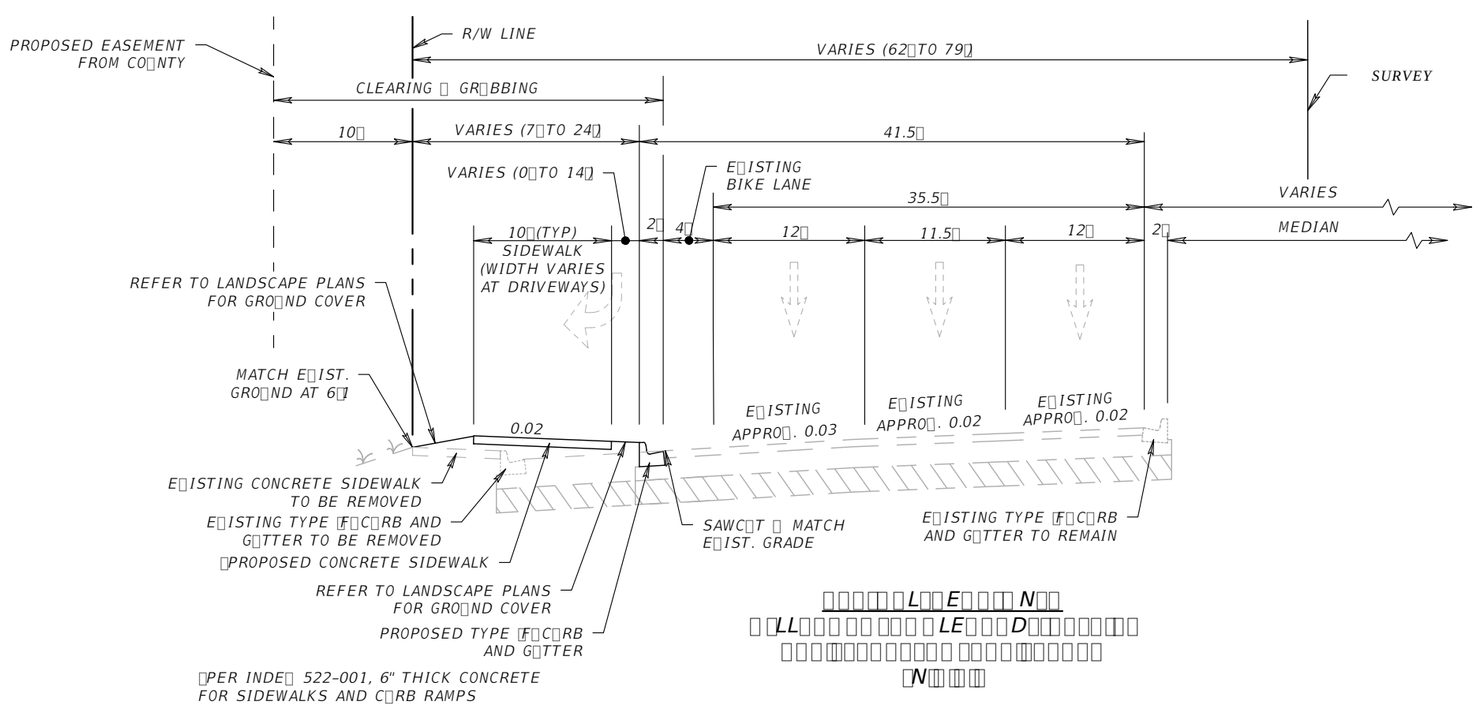

PER INDE 522-001, 6" THICK CONCRETE FOR SIDEWALKS AND C RB RAMPS

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REVISIONS			
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MOHAN GOPALAKRISHNA, PE, PTOE
P.E. LICENSE NUMBER 60720
CARNAHAN PROCTOR & CROSS, INC.
814 S. MILITARY TRAIL
DEERFIELD BEACH, FL 33442
CERTIFICATE OF AUTHORIZATION 2936

CITY OF COCON T CREEK

ROAD NO.	CO NTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

TYPICAL SECTIONS

SHEET NO. 5

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WITHIN COUNTY RIGHT-OF-WAY, ALL MAINTENANCE ACCESSIBLE STRUCTURES ARE TO HAVE “BROWARD COUNTY STORM” INSCRIBED ON THE COVER.

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REVISIONS			
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MOHAN GOPALAKRISHNA, PE, PTOE
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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

SIDEWALK IMPROVEMENT
GENERAL NOTES

SHEET NO. 6

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TREE #	COMMON NAME	BOTANICAL NAME	WIDTH (ft)	HEIGHT (ft)	DBH (in)	DISPOSITION	Condition and observations	MITIGATION (sf)
584	Slash Pine	Pinus elliottii	15	35	15	Remain	FPL side cut/poor	
585	Florida Trema	Trema micranthum	14	35	20	Remain	Good	
1056	Sabal Palm	Sabal palmetto	18	13	9	**Remove**	Good/covered in vines	254
1059	Slash Pine	Pinus elliottii	8	26	3	Remain	Poor /Juvenile pine/FPL topped and side cut	
1060	Slash Pine	Pinus elliottii	7	20	4	Remain	Poor /Juvenile pine/FPL topped and side cut	
1061	Slash Pine	Pinus elliottii	16	33	20	Remain	Poor /Juvenile pine/FPL topped and side cut	
1062	Slash Pine	Pinus elliottii	7	13	8	**Remove**	Poor /Juvenile pine/FPL topped and side cut	38
1063	Slash Pine	Pinus elliottii	8	18	10	Remove	Poor /Juvenile pine/FPL topped and side cut	50
1065	Slash Pine	Pinus elliottii	8	20	7	Remain	Poor /Juvenile pine/FPL topped and side cut	
1066	Slash Pine	Pinus elliottii	9	18	5	Remain	Poor /Juvenile pine/FPL topped and side cut	
1067	Slash Pine	Pinus elliottii	13	42	16	Remain	Poor /Juvenile pine/FPL topped and side cut	
1069	Slash Pine	Pinus elliottii	9	30	7	Remain	Poor /Juvenile pine/FPL topped and side cut	
1070	Slash Pine	Pinus elliottii	6	18	6	Remain	Poor /Juvenile pine/FPL topped and side cut	
1071	Slash Pine	Pinus elliottii	9	28	9	Remain	Poor /Juvenile pine/FPL topped and side cut	
1072	Slash Pine	Pinus elliottii	12	30	16	Remain	Fair/dieback throughout canopy	
1075	Slash Pine	Pinus elliottii	8	20	10	**Remove**	Fair/dieback throughout canopy	50
1077	Slash Pine	Pinus elliottii	8	23	14	Remain	Poor/FPL topped	
1079	Slash Pine	Pinus elliottii	7	28	5	Remain	Fair/covered in vines	
1080	Slash Pine	Pinus elliottii	8	22	10	**Remove**	Fair/covered in vines	50
1081	Slash Pine	Pinus elliottii	8	30	12	Remain	Fair/covered in vines	
1082	Slash Pine	Pinus elliottii	14	40	15	Remain	Fair/covered in vines	
1083	Slash Pine	Pinus elliottii	7	25	15	Remain	Fair/covered in vines	
1100	Slash Pine	Pinus elliottii	19	45	18	Remain	FPL topped/poor	
1101	Slash Pine	Pinus elliottii	9	18	15	Remain	Good	
1102	Slash Pine	Pinus elliottii	7	20	13	Remain	Poor/chlorotic/ under FPL lines	
1103	Slash Pine	Pinus elliottii	10	22	12	Remain	Good but very close to FPL lines	
1104	Sabal Palm	Sabal palmetto	14	15	12	**Remove**	Fair/Covered in vines	113
1105	Slash Pine	Pinus elliottii	6	17	8	Remain	Fair/Covered in vines	
1106	Slash Pine	Pinus elliottii	11	22	15	Remain	Good	
1107	Slash Pine	Pinus elliottii	18	22	8	Remain	Poor/FPL topped	
5357	Ironwood	Bumelia tenax	4	11	3	**Remove**	Good	13
5358	Slash Pine	Pinus elliottii	6	18	13	Remain	Good	
5359	Slash Pine	Pinus elliottii	9	25	12	Remain	Good	
5360	Florida Trema	Trema micranthum	10	10	3	Remain	Good	
5361	Florida Trema	Trema micranthum	8	15	13	Remain	Poor 1/2 dead	
5362	Florida Trema	Trema micranthum	3	15	9	Remain	Poor 1/2 dead	
5363	Slash Pine	Pinus elliottii	14	27	12	Remain	Good	
5364	Sable Palm	Sable palmetto	12	12	12	Remain	Good	
5365	Florida Trema	Trema micranthum	4	18	9	Remain	Good	

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FDOT LANDSCAPE PERMIT NUMBER 2022-C-491-00001

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
03.30.22	FDOT Comments		

JILL COHEN, PLA
FL. LICENSE NUMBER LA1600
JBC PLANNING AND DESIGN
1312 MAJESTY TERRACE
WESTON, FLORIDA 33327

CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR–810	BROWARD	----

TREE DISPOSITION DATA

SHEET NO. TDP-8

Hayley Harrison 3/30/2022 9:13:37 AM D:\HH INC\Projects\JBC\Hillsboro Blvd Trail\03 CAD\Hillsboro Blvd Trail TDP.dwg

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TREE #	COMMON NAME	BOTANICAL NAME	WIDTH (ft)	HEIGHT (ft)	DBH (in)	DISPOSITION	Condition and observations	MITIGATION (sf)
5366	Florida Trema	Trema micranthum	4	15	6	Remain	Good	
5367	Florida Trema	Trema micranthum	3	17	15	Remain	Good	
5368	Slash Pine	Pinus elliottii	12	30	15	Remain	Good	
5369	Slash Pine	Pinus elliottii	14	25	16	Remain	Good	
5370	Slash pine	Pinus elliottii	10	27	12	Remain	Good	
5371	Slash pine	Pinus elliottii	6	18	12	Remain	Fair/covered in vines	
5372	Florida Trema	Trema micranthum	3	9	7	Remain	Good	
5373	Slash Pine	Pinus elliottii	5	25	7	Remain	Fair/Covered in vines	
5374	Slash Pine	Pinus elliottii	15	30	6	Remain	Fair/Covered in vines	
5375	Slash Pine	Pinus elliottii	8	30	6	Remain	Fair/Covered in vines	
5376	Sabal Palm	Sabal palmetto	15	12	12	Remain	Fair/covered in vines	
5377	Sabal Palm	Sabal palmetto	17	13	12	Remove	Fair/covered in vines	227
5378	Florida Trema	Trema micranthum	11	20	17	Remain	Good	
5379	Live oak	Quercus virginiana	19	11	10	Remove	Good	284
5380	Slash Pine	Pinus elliottii	7	30	9	Remain	Fair/dieback throughout canopy	
5381	Slash Pine	Pinus elliottii	12	35	15	Remain	Fair/dieback throughout canopy	
5382	Slash Pine	Pinus elliottii	11	35	10	Remain	Fair/dieback throughout canopy	
5383	Slash Pine	Pinus elliottii	5	20	4	Remain	Fair/dieback throughout canopy	
5384	Slash Pine	Pinus elliottii	6	18	7	Remain	Fair/dieback throughout canopy	
5385	Slash Pine	Pinus elliottii	16	14	12	Remove	Fair/dieback throughout canopy	201

MITIGATION CALCULATIONS

EXISTING CANOPY TO BE REMOVED: 1,280 SF

PROPOSED CANOPY TO BE INSTALLED: 11,340 SF

SEE LANDSCAPE PLAN FOR CANOPY CALCULATIONS OF PROPOSED MATERIAL

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REVISIONS			
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JILL COHEN, PLA
FL. LICENSE NUMBER LA1600
JBC PLANNING AND DESIGN
1312 MAJESTY TERRACE
WESTON, FLORIDA 33327

CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

TREE DISPOSITION DATA

SHEET NO. TDP-9

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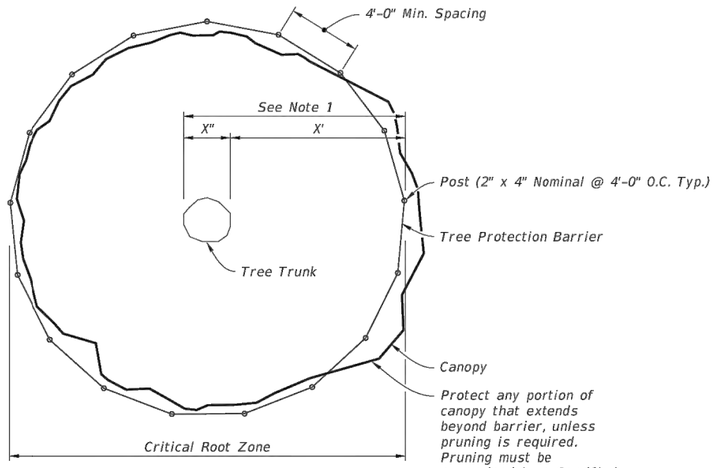
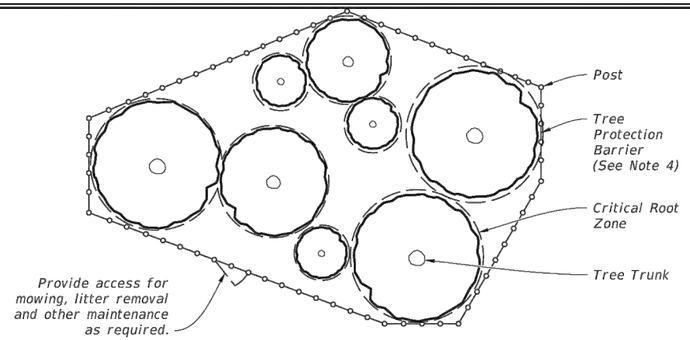
NOTES:

1. Critical Root Zone: Extends in all directions from trunk of tree to a distance equal to one foot per inch of trunk diameter at breast height.
2. Staging, storage, dumping, washing and operation of equipment is not permitted within the limits of the tree protection barrier, including during barrier installation.
3. Install all tree protection prior to commencement of construction and remove when directed by the Engineer. Maintain protection at all times.
4. For closely spaced groups of trees, place the tree protection barrier around the entire group.
5. Inspect trunk protection and tree quarterly to prevent girdling. Adjust bands to allow tree growth as needed.
6. See plans for any additional requirements or modifications within the tree protection area.
7. Place weather resistant sign every 50' along the barrier, with 6" minimum text height and provide text in English and Spanish. Sign should read " Keep Out Tree Protection Area".
8. Alternate tree protection systems approved by the Engineer may be used in lieu of the tree protection barrier detailed on this Index as long as the critical root zone is protected.
9. The Critical Root Zone may be reduced, in the field, by a certified Arborist or Landscape Architect.

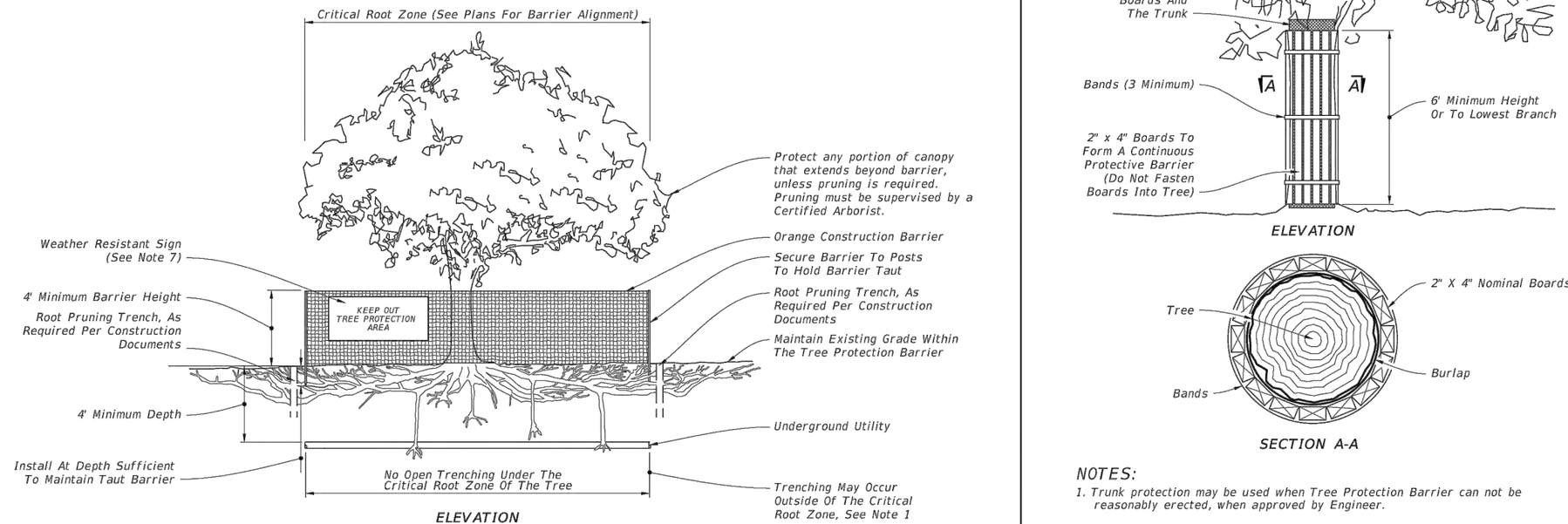


PLAN



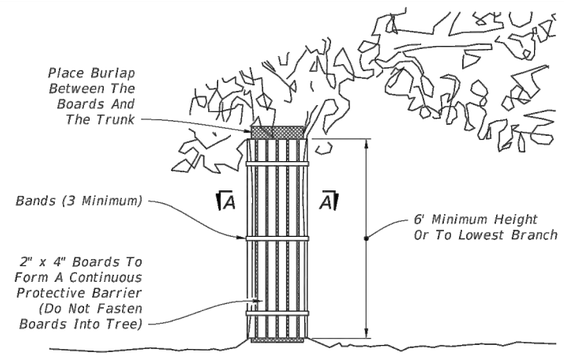
PLAN

PROTECTION BARRIER FOR TREE GROUPINGS



ELEVATION

TREE PROTECTION BARRIER



ELEVATION

SECTION A-A

NOTES:

1. Trunk protection may be used when Tree Protection Barrier can not be reasonably erected, when approved by Engineer.
2. See Selective Clearing and Grubbing Plan for location of trunk protection, when applicable.
3. Adjust bands to allow tree growth (inspect quarterly to prevent girdling).

TRUNK PROTECTION

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/18			FDOT FY 2021-22 STANDARD PLANS	TREE PROTECTION AND PRESERVATION	110-100	1 of 1

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JILL COHEN, PLA
FL. LICENSE NUMBER LA1600
JBC PLANNING AND DESIGN
1312 MAJESTY TERRACE
WESTON, FLORIDA 33327

CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

TREE PROTECTION

SHEET NO. TDP-10

Hayley Harrison 3/30/2022 9:13:38 AM D:\HH INC\Projects\JBC\Hillsboro Blvd Trail\03 CAD\Hillsboro Blvd Trail TDP.dwg

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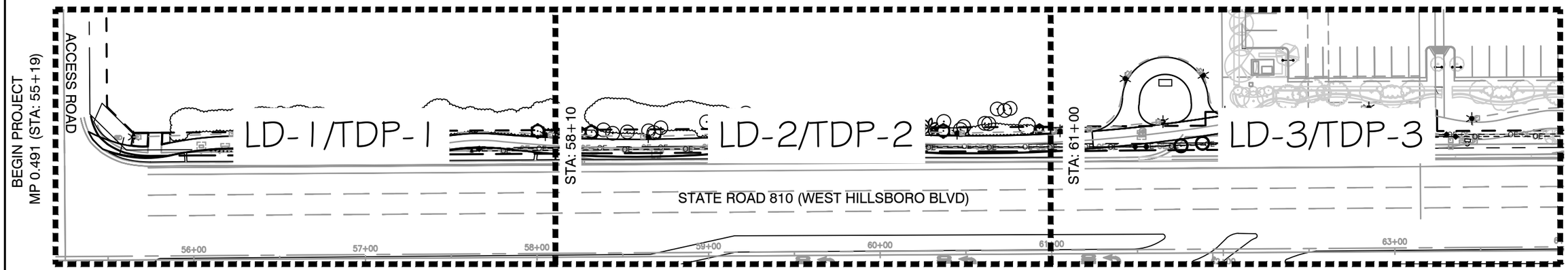

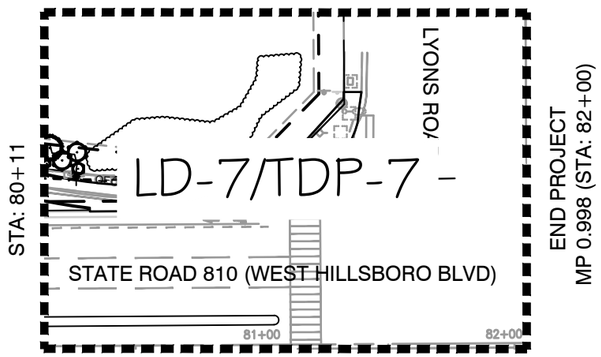

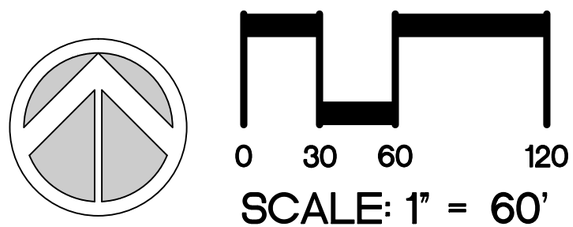

FDOT LANDSCAPE PERMIT NUMBER 2022-L-491-00004

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
09.14.21	City Comments	05.31.22	FDOT Comments
10.07.21	City Comments		
10.13.21	City Comments		
03.30.22	FDOT Comments		

JILL COHEN, PLA
FL. LICENSE NUMBER LA1600
JBC PLANNING AND DESIGN
1312 MAJESTY TERRACE
WESTON, FLORIDA 33327

CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

PROJECT LAYOUT

SHEET NO. LD-0

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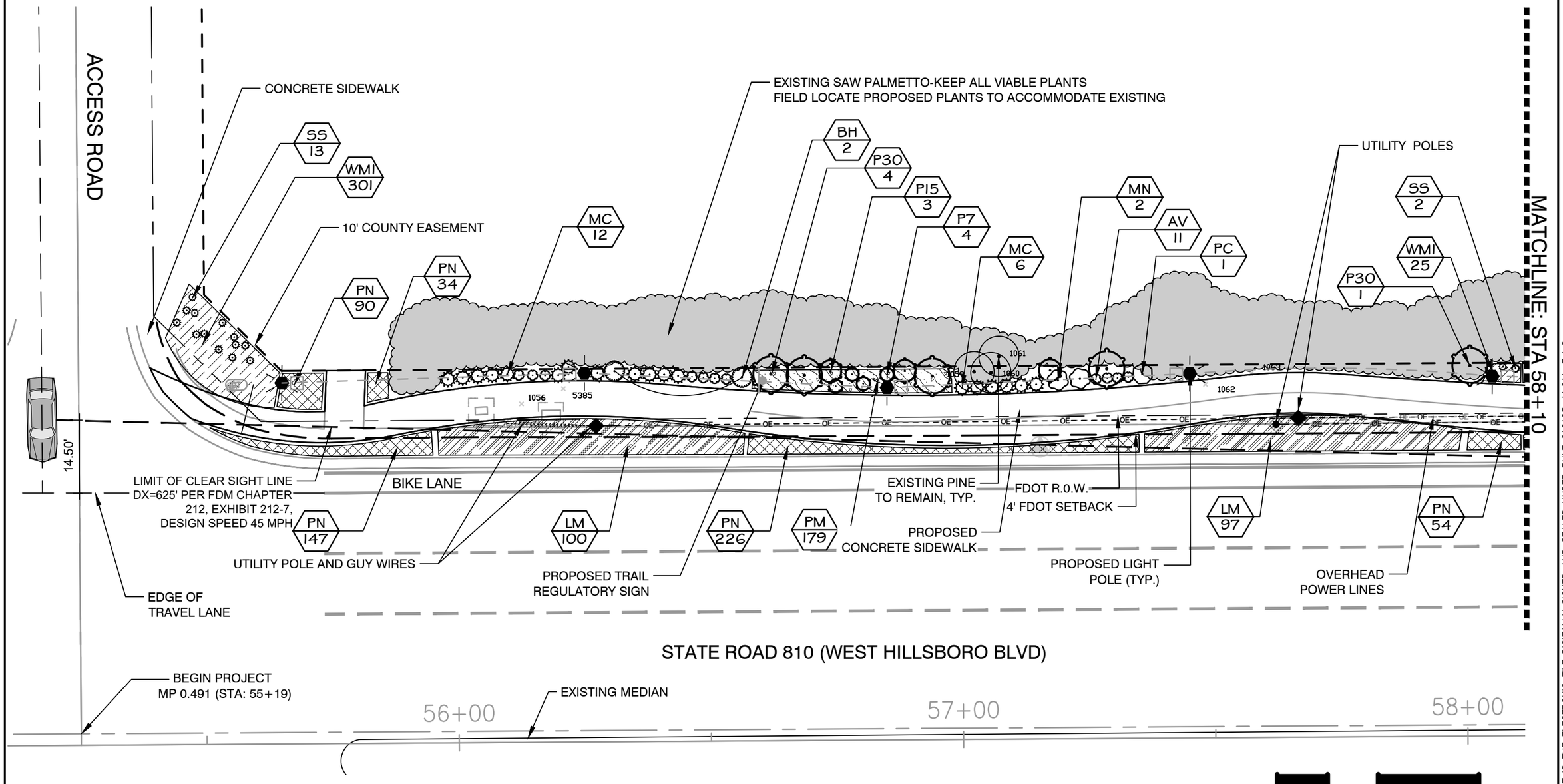

NOTES

1. Adjacent trees will require canopy cleaning and pruning.

2. Certified Arborist to be present during clearing to assess and monitor remaining canopy and root systems to ensure trees preserved are stabilized and to recommend removals as needed for weakened adjacent and nearby trees.

3. Contractor to coordinate with Owner's Representative to field locate material to accommodate existing native material to remain.

0 10 20 40

SCALE: 1" = 20'

FDOT LANDSCAPE PERMIT NUMBER 2022-L-491-00004

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
09.14.21	City Comments	05.31.22	FDOT Comments
10.07.21	City Comments		
10.13.21	City Comments		
03.30.22	FDOT Comments		

JILL COHEN, PLA
FL. LICENSE NUMBER LA1600
JBC PLANNING AND DESIGN
1312 MAJESTY TERRACE
WESTON, FLORIDA 33327

CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

LANDSCAPE PLAN

SHEET NO. LD-1

Hayley Harrison 6/1/2022 7:50:25 AM D:\HH INC\Projects\JBC\Hillsboro Blvd Trail\03 CAD\2022-05-31 Hillsboro Blvd Trail Landscape.dwg

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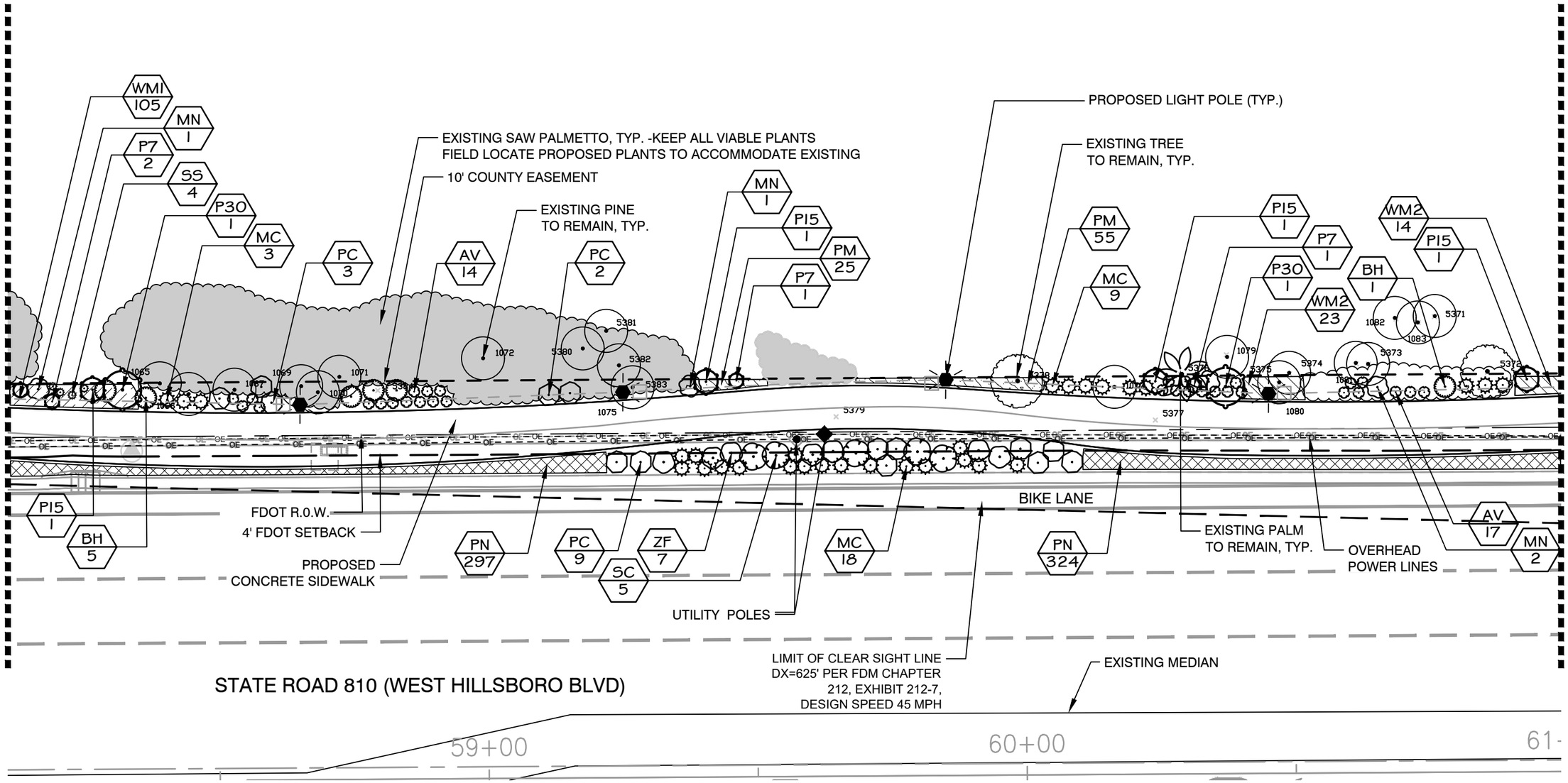
MATCHLINE: STA 58+10

MATCHLINE: STA 61+00



NOTES

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2. Certified Arborist to be present during clearing to assess and monitor remaining canopy and root systems to ensure trees preserved are stabilized and to recommend removals as needed for weakened adjacent and nearby trees.

3. Contractor to coordinate with Owner's Representative to field locate material to accommodate existing native material to remain.

0 10 20 40

SCALE: 1" = 20'

FDOT LANDSCAPE PERMIT NUMBER 2022-L-491-00004

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

LANDSCAPE PLAN

SHEET NO. LD-2

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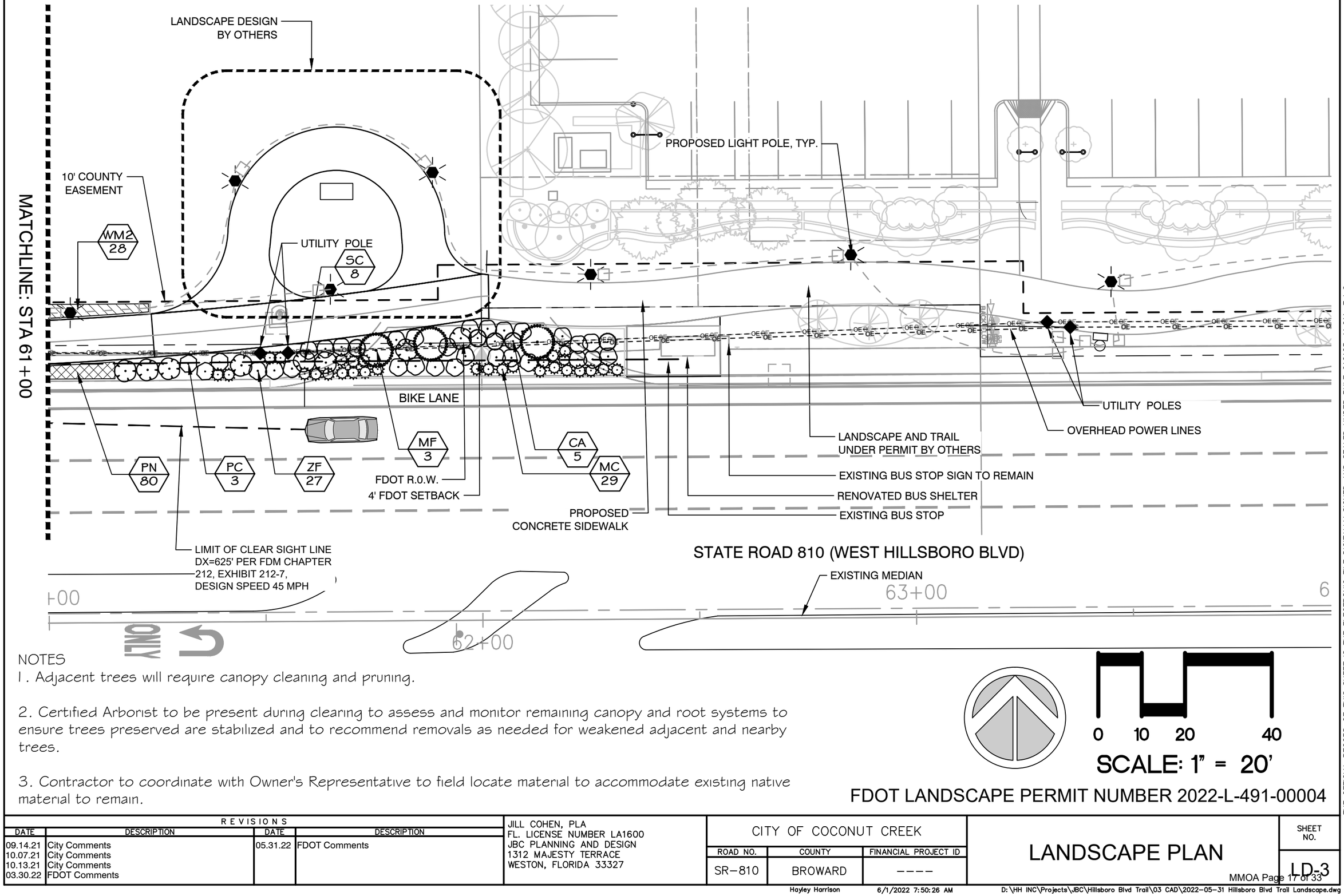

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

LANDSCAPE PLAN

SHEET NO. LD-3

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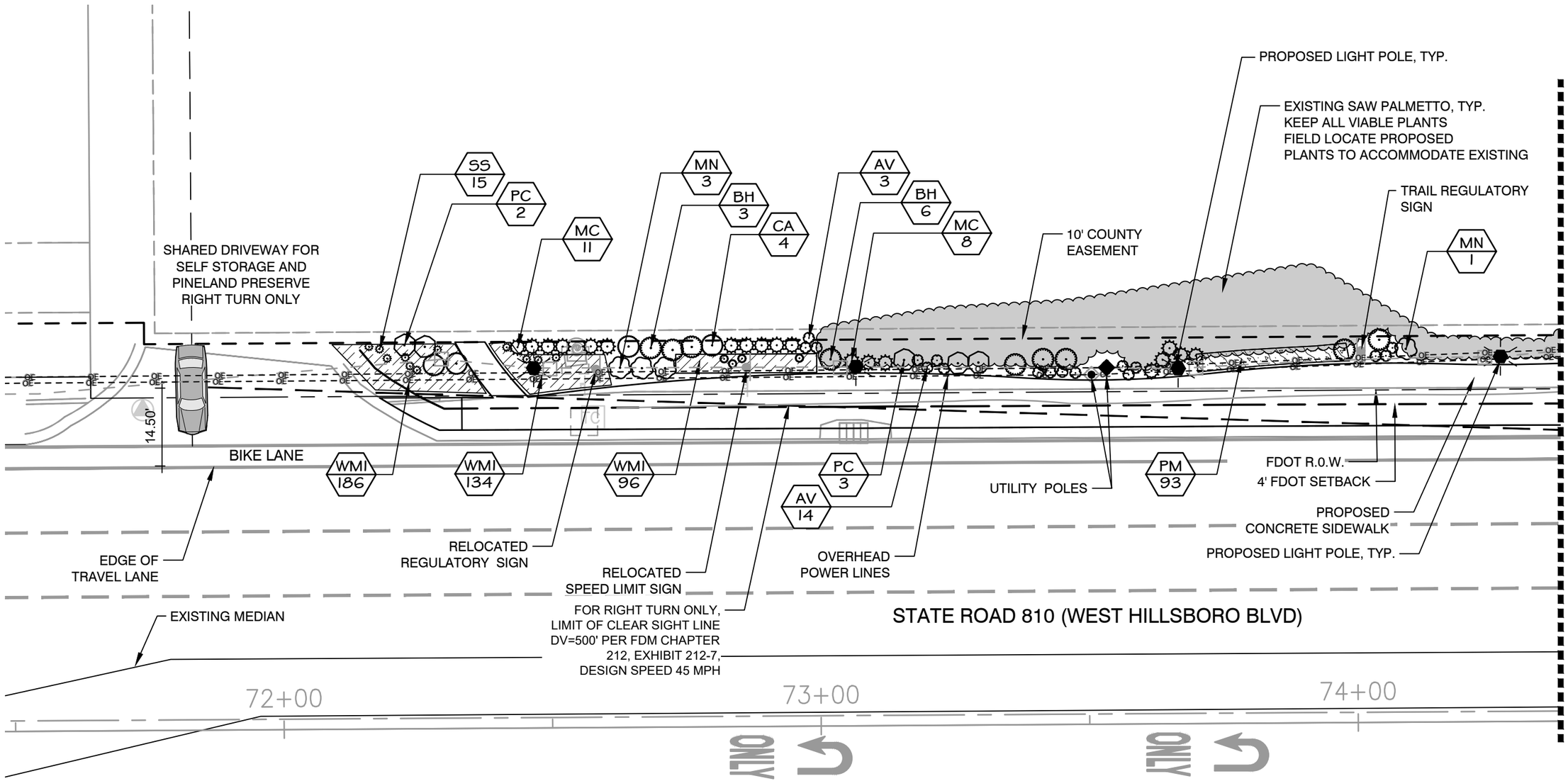

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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LANDSCAPE PLAN

SHEET NO. LD-4

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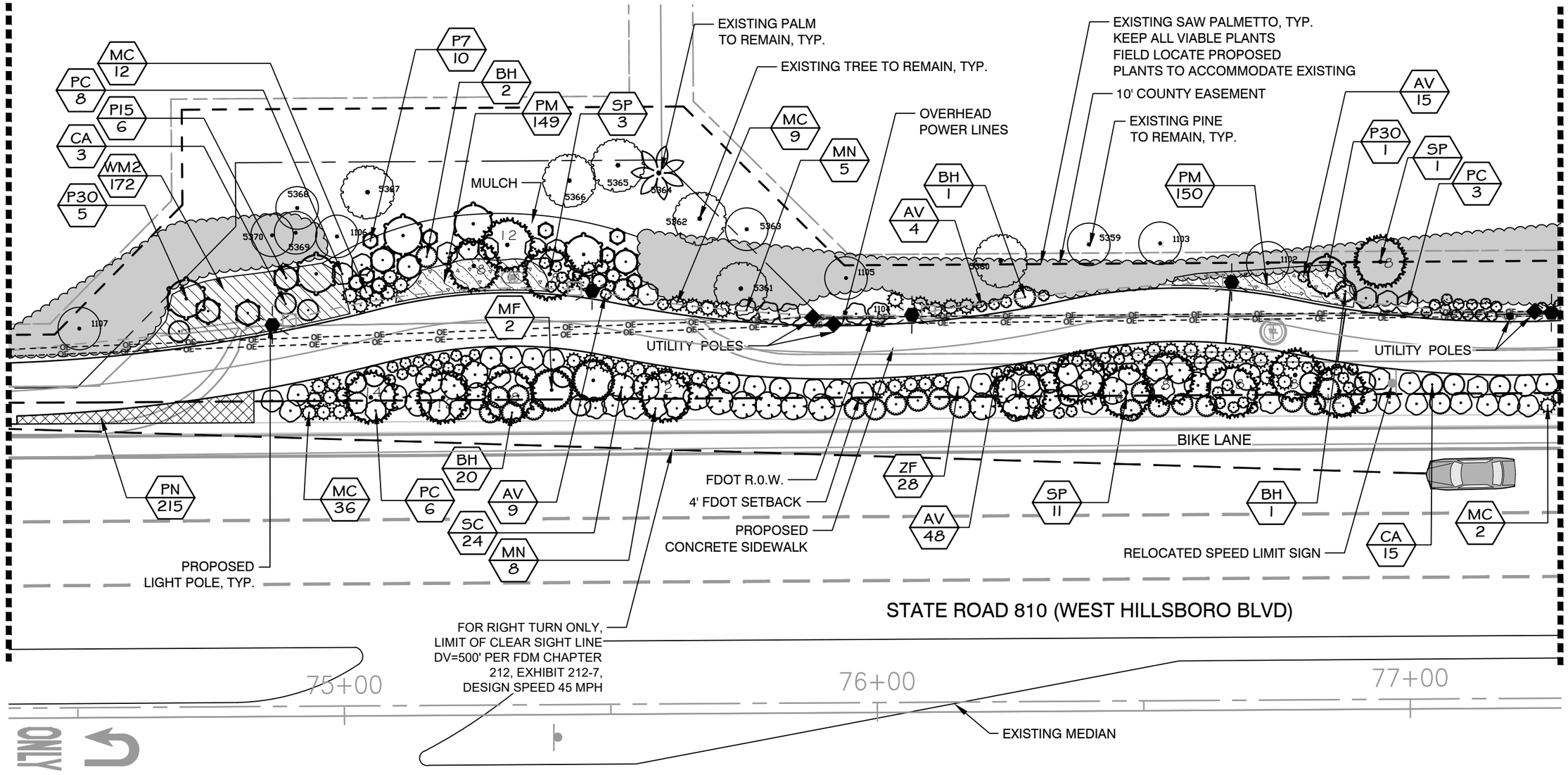

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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LANDSCAPE PLAN

SHEET NO. LD-5

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MATCHLINE: STA 77+29

MATCHLINE: STA 80+11

CONTRACTOR TO COORDINATE WITH PARKS DEPT. TO LOCATE AND PRESERVE/RELOCATE EXISTING PASPALUM AND MELANTHERA

P7 2

PM 165

AV 8

P30 2

BH 1

EXISTING PINE TO REMAIN, TYP.

PROPOSED STREET LIGHT, TYP.

MN 3

EXISTING SAW PALMETTO, TYP. KEEP ALL VIABLE PLANTS FIELD LOCATE PROPOSED PLANTS TO ACCOMMODATE EXISTING

10' COUNTY EASEMENT

MC 11

CONTRACTOR TO COORDINATE WITH PARKS DEPT. TO LOCATE AND PRESERVE/RELOCATE EXISTING PASPALUM AND MELANTHERA

EXISTING TREE TO REMAIN, TYP.

OVERHEAD POWER LINES

MC 7

PC 3

PI5 1

P7 2

SP 1

WM2 85

MN 1

AV 15

5358

5357

1100

5355

5354

UTILITY POLES

FDOT R.O.W.

BIKE LANE

MF 4

PC 14

MN 6

PROPOSED BIKE LANE SIGN

ZF 30

SP 8

MC 42

BH 5

SC 20

AV 10

4' FDOT SETBACK

PROPOSED CONCRETE SIDEWALK

EXISTING MEDIAN

CA 2

PN 119

SP 4

ZF 8

PROPOSED BUS STOP

CA 3

SC 2

AV 15

PN 486

P30 3

RELOCATED BUS STOP SIGN

STATE ROAD 810 (WEST HILLSBORO BLVD)

78+00

79+00

80+00

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

LANDSCAPE PLAN

SHEET NO. LD-6

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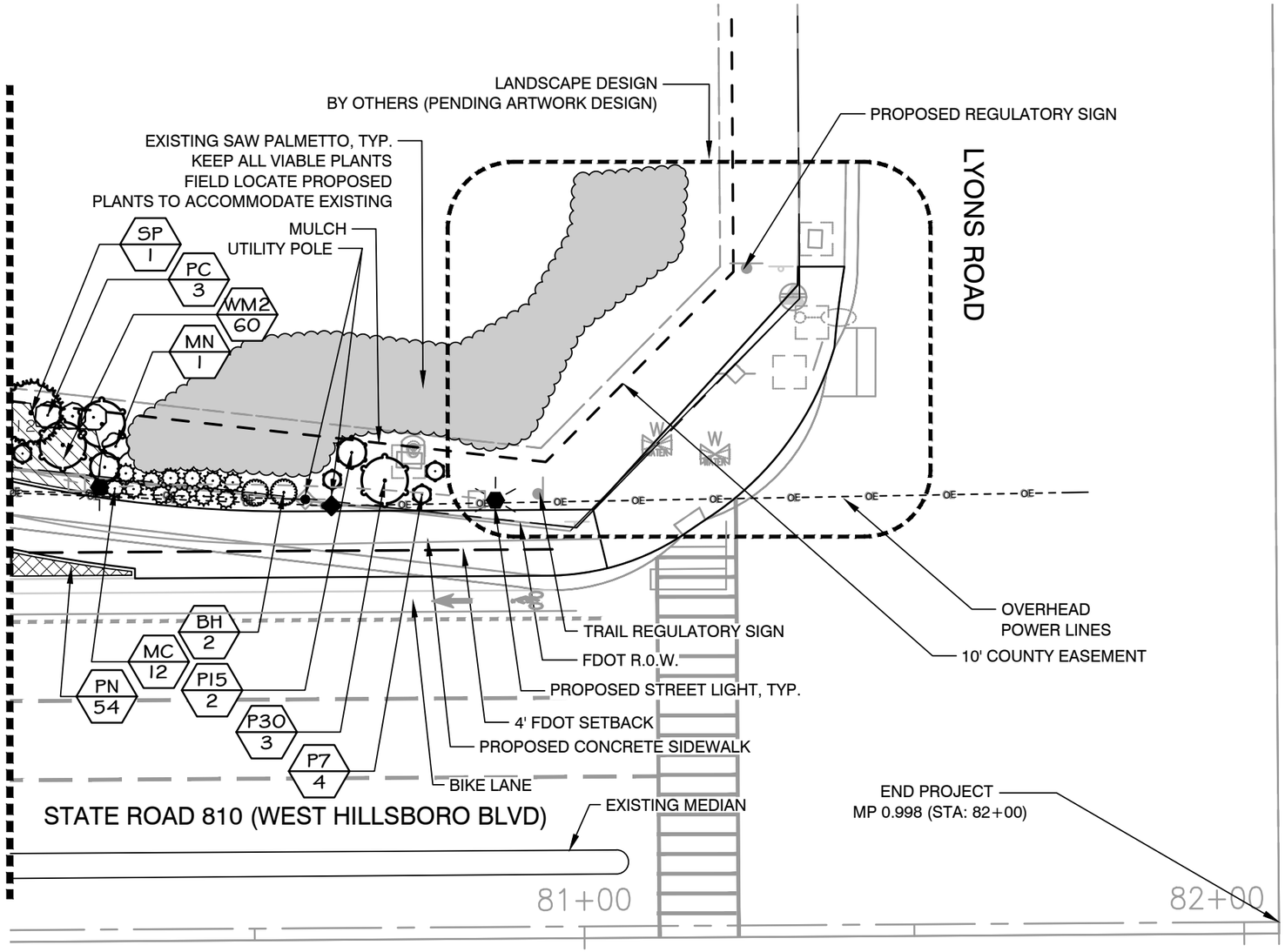

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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LANDSCAPE PLAN

SHEET NO. LD-7

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GENERAL NOTES:

1. PLANT MATERIAL: All plant material shall be Florida #1 or better as established by "Grades and Standards for Nursery Plants" of the state of Florida, Department of Agriculture.

2. All trees, shrubs and groundcovers shall be of the sizes as specified in the Plant List.

3. Quantities listed on the the Plant List are for estimating purposes. Contractor shall verify all quantities. Mulch, topsoil, fertilizer, etc. shall be included in the unit cost of the plants.

4. Where there is a discrepancy either in quantities, plant names, sizes or specifications between the plan or plant list, the plan takes precedence.

5. All planting beds and water basins for trees shall be covered with a 3" minimum depth of mulch.

6. The Planting Plan shall be installed in compliance with all existing codes and applicable deed restrictions.

7. Planting soil to be a weed-free mixture of 50% sand, 40% muck, and 10% Canadian peat. All plant material to receive planting soil as per details.

8. Contractor is responsible for determining all utility locations and installing facilities so as to not conflict. All damage to existing utilities or improvements caused by Contractor shall be repaired at no additional cost to the Owner.

9. Contractor to notify "Sunshine State One Call of Florida, Inc." at 1-800-432-4770 Two Full Business Days prior to digging for underground utility locations.

10. Contractor shall be responsible for providing final grading of all associated planting areas.

11. After final grade, area to be raked to 6" depth and all rock and foreign inorganic materials removed and disposed of properly off-site.

12. All planting holes to be hand dug except where machine dug holes will not adversely affect or damage utilities or improvements (see note 8).

13. No plunging of any tree or palm will be accepted. All plants to be planted at the nursery grade or slightly higher.

14. Contractor shall stake & guy all trees and palms at time of planting as per the appropriate detail. Contractor is responsible for the maintenance and/or repair of all staking and guying during warranty period and removal & disposal of staking after establishment period.

15. SUBSTITUTIONS AND CHANGES: All substitutions and changes shall be approved in writing prior to installation. Any discrepancies between plans, site and specifications shall be brought to the immediate attention of the Landscape Architect, the owner and governing municipality.

16. WATERING: All plant material shall be watered in at time of planting in accordance with standard nursery practices. In addition, Contractor will continue watering of plant material until substantial completion and as needed thereafter for a period of 1 year.

17. All new plant material shall be guaranteed for 1 year from time of final acceptance of project. Any plant material not in a healthy growing condition will be replaced by the Contractor at no additional cost to the Owner within 10 days of notification. For all replacement plant material, the warranty period shall be extended an additional 45 days beyond the original warranty period. All trees that lean or are blown over, caused by winds less than 75 mph, will be re-set and braced by the Contractor at no additional cost to the Owner.

18. The successful bidder shall furnish to the Owner a unit price breakdown for all materials. The Owner may, at its discretion, add or delete from the materials utilizing the unit price breakdown submitted.

19. No plant material will be accepted showing evidence of cable, chain marks, equipment scars, or otherwise damaged.

20. Plant material will not be accepted when the ball of earth surrounding its roots has been cracked, broken or otherwise damaged.

21. Root-prune all trees a minimum of (8) weeks prior to planting.

22. All plant material planted within the sight distance triangle areas (see plan) shall not be larger than 18" at maturity per FDOT requirements in FDM 212.

23. No canopy trees shall be planted within 12 feet of a light pole. No palm species shall be planted within 6 feet of a light pole.

24. Ground cover plantings shall provide not less than 50 percent coverage immediately upon planting and 100 percent coverage within 6 months after planting.

25. Tree protection barricades shall be provided by Landscape Contractor around existing trees that may be impacted by the proposed construction. Prior to any construction a tree protection barricade inspection shall be conducted by the landscape architect, owner or governing municipality. Refer to landscape detail for tree preservation barricade fencing.

27. All landscape material shall be setback a minimum of 10' from any Fire Hydrant.

28. Certified Arborist to canopy and root prune all existing trees to remain for dead branches, cross branching, dead wood and provide an overall pruning as needed overtime to provide for the overall health of the existing trees to remain on-site.

29. Contractor to be responsible to return to the site after tree establishment to remove all stakes, tape and bracing on the trees after tree establishment.

30. MULCH: Bid shall include 3" depth of installed mulch. Mulch to be Pine Straw or as approved by the City.

FDOT LANDSCAPE PERMIT NUMBER 2022-L-491-00004

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1312 MAJESTY TERRACE
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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

LANDSCAPE NOTES

SHEET NO. LD-8

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CITY OF COCONUT CREEK

STANDARD LANDSCAPE NOTES

1. All landscape and specifications shall meet or exceed the minimum requirements as provided in the City of Coconut Creek Land Development Code. Plans are incomplete without written notes and specifications.
2. All planting material shall meet or exceed Florida Grade #1 as specified in Grades and Standards for Nursery Plants, current edition. Trees shall not be tipped, topped, or shaped prior to installation.
3. Landscape shall be placed to edge of abutting streets, canals, lakes or other lands.
4. All mechanical equipment, air conditioning, irrigation pump stations and equipment, FPL transformers, pool pumps, etc., must be screened on three (3) sides by landscape shrubs.
   NOTE: The quantity of screening shrubs is in addition to the required number of shrubs as provided in the code calculation table. All screening shrubs shall be planted for proper operation of equipment being screened and/or per the requirements of the utility as necessary. All hedge material required for screening purposes shall be planted with branches touching. Adjust on-center spacing as necessary and/or provide additional plants to provide an adequate screen.
5. Sight distance concerns must be maintained for clear sight visibility from thirty (30) inches to seventy-two inches, tree trunks excluded. Measurement shall be made from top of root ball planted at proper elevation.
6. Guying/staking practices shall not permit nails, screws, wires, etc., to penetrate outer surfaces of trees, palms or other plant material. Trees, palms and plant material rejected due to this practice shall be replaced with the inspector on site.
7. Burlap material, wire cages, plastic/canvas straps, etc., must be cut and removed from the top one-half (1/2) depth of the root ball. Trees and shrubs grown in grow bags or grow bag type material must have such material REMOVED ENTIRELY prior to planting the tree or shrub.
8. All plant material shall be free of pests, insects, disease, weeds, etc.
9. All required landscape material shall be installed using a planting soil mix comprised of a type appropriate to the individual proposed plant material and the native soil found on the site.
10. All plant material shall be planted at the proper depth, as originally grown and/or so the top of the root ball is flush or slightly above finished grade immediately after planting. All trees should provide trunk taper when properly planted at the correct planting depth.
11. All plant material shall be watered in at time of planting to eliminate air pockets in the root zone area.
12. Upon completion of work, the site shall be cleared of all debris, superfluous materials, and equipment caused by this permit to the satisfaction of the inspector.
13. Refer to Coconut Creek Fire Equipment Clear Zone diagram to maintain a safe zone fronting fire hydrants.
14. Do not plant trees, shrubs or groundcover within Electric Meter Clear Zone. Provide a safe zone as described by the Electrical Inspector.
15. All landscaped areas shall be provided with an underground fully automatic irrigation system using pop-up sprinklers. System shall provide 100% coverage with 50% overlap (minimum) using rust free water, except preserved areas remaining in natural state. A rain sensor device or switch shall be installed that will override the irrigation system when adequate rainfall has occurred. Water shall not be directed and/or provided onto impervious surfaces and/or be designed or installed to throw water over an impervious surface such as a sidewalk, etc. Hours of operation for all irrigation systems shall be limited to 5:00 p.m. to 8:00 a.m. only or as may be further restricted by South Florida Water Management District or other jurisdictional agency.
16. Irrigation permits and plans shall be submitted for approval at time of building permits.
17. All non-single family or duplex irrigation systems other than City water systems shall require a South Florida Water Management District water use permit prior to issuance of an irrigation permit and installation of the irrigation system as required.
18. All site amenities to include site street lights, landscape common open space, irrigation common open space, buffers, berms, landscape entry features, etc. leading up to and including the model center and/or first certificate of occupancy must be completed and functional prior to issuance of the first requested certificate of occupancy.
19. The height of all required, designed and installed berms shall be from the highest adjacent point whether it is the sidewalk, parking area, vehicular use area, surrounding ground, etc. Where a berm abuts a sidewalk, there shall be a one (1) foot level sod area adjacent to the sidewalk prior to the start of incline for the berm.
20. An inspection is required prior to the backfilling of trees/palms in all parking medians and islands.

NOTE: THIS COMMENT SHEET IS TO BE PLACED ON ALL LANDSCAPE PLANS "AS IS".

FDOT GENERAL NOTES

1. GOVERNING STANDARD PLANS: Florida Department of Transportation, FY 2021-22 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs) are available at the following website: https://www.fdot.gov/design/standardplans
2. GOVERNING STANDARD SPECTIFICATIONS: Florida Department of Transportation, January 2022 Standard Specifications for Road and Bridge Construction at the following website: https://www.fdot.gov/programmanagement/implemented/specbooks
3. State Road 810 roadway Design Speed = 45 MPH.
4. Contractor shall repair all damage done to FDOT property during demolition, relocation &/or installation activities at his sole expense.
5. Any plant material substitution within or impacting the FDOT Right of Way whether requested by the Contractor, Owner, Landscape Architect or other will need to get approval from the FDOT District Landscape Architect.
6. Ownership of all suitable excavated materials, as determined by the Department, shall remain in the Department until a final acceptance of the permitted project is fulfilled. Excavated materials shall be hauled by the Permittee, at their cost & expense from the site to the FDOT Broward Operations Center or stockpiled in those areas as directed by the Department, including asphalt millings.

FDOT PLANTING NOTES

1. For the portion of landscape plant material that will be installed within the FDOT Right of Way, landscape installation shall comply with current applicable FDOT Maintenance Specification 580. Online Reference: https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/maintenance/jan22/ssm5800000wd-122.pdf?sfvrsn=414b7013_2
2. For the portion of landscape plant material that will be installed within the FDOT Right of Way refer to the FDOT Standard Plans Index 580-001 Landscape Installation.
   Online Reference: https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/design/standardplans/2023/idx/580-001.pdf?
3. Cypress Mulch is not permitted on FDOT right of way. Mulch permitted to be used are Hardwood Mulch (containing no Cypress products), Recycled Mulch or approved equal, certified by the Mulch and Soil Council (MSC). Submit proof of certification to the FDOT District Operations Permit Landscape Inspector upon inspection.
4. Sodded areas will be in accordance with Standard Plans Index 570-010 and Standard Specifications Sections 162, 570, 981, 982, 983, 987 of the Department's latest edition of Governing Design Standards and Standard Specifications. All disturbed areas will be sodded within one (1) week of installation of said permitted work.
5. Proposed trees and palms at time of planting and future growth must provide the following minimum planting vertical clearance, as required by the FDOT Maintenance Rating Program:
   a. Sidewalk = 8.5' Vertical clearance
   b. Roadway = 14.5' Vertical clearance

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CITY OF COCONUT CREEK

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LANDSCAPE NOTES

SHEET NO. LD-9

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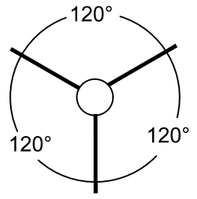
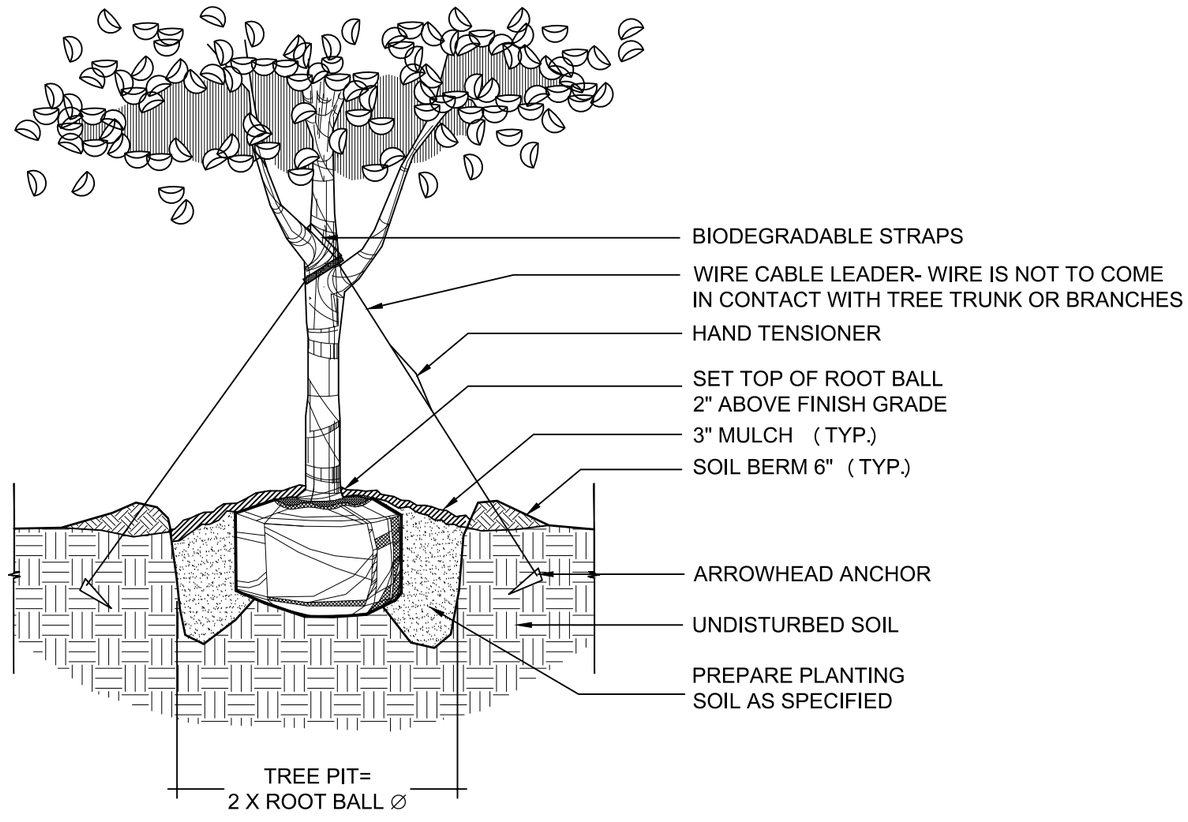
NOTES:

1. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

SCHEMATIC PLAN VIEW OF STAKING.





01 TREE PLANTING

1/2" = 1'-0"

P-HI-01

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LANDSCAPE DETAILS

SHEET NO. LD-10

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DocuSign Envelope ID: 039CBC99-7158-4B1D-B733-413A2ED40B72

NOTES:

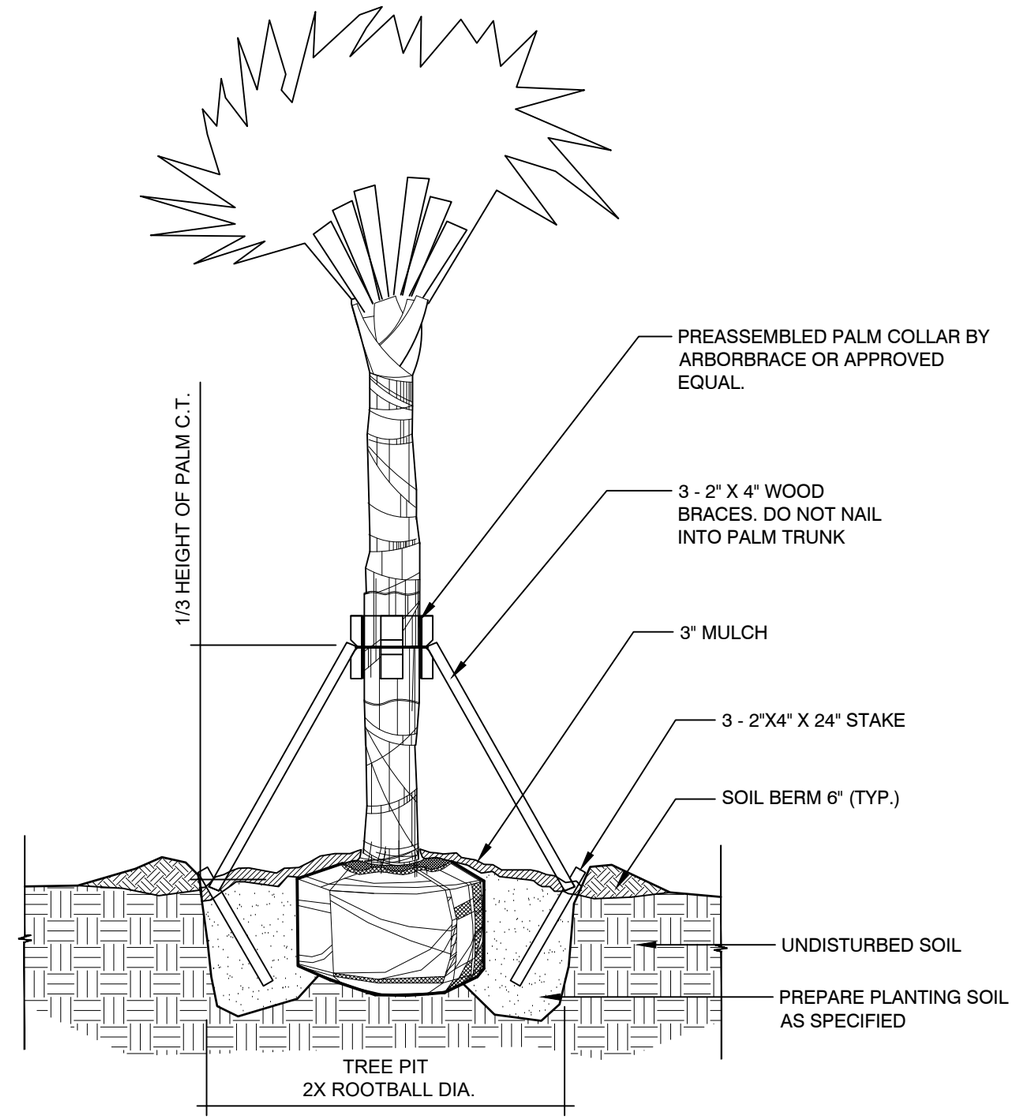
1. CONTRACTOR SHALL ASSURE THE PERCOLATION OF ALL PLANTING PITS / BEDS PRIOR TO INSTALLATION OF MATERIAL.

2. ALL PLANTING PITS / BEDS SHALL BE FREE OF ALL DEBRIS PRIOR TO INSTALLATION.

3. SABAL PALMS SHALL BE NURSERY GROWN. SABAL PALMS SHALL NOT BE HURRICANE CUT. ALL SABAL PALMS TO BE PROVIDED BY ROOTS PLUS GROWER, AND SHALL HAVE MINIMUM 5 REGENERATED FRONDS.

4. SOIL BERMS ARE TO BE CONSTRUCTED AT RIGHT ANGLES TO THE PLANT OR IN THE POSITION WHICH WILL MOST EFFECTIVELY RETAIN WATER AT THE BASE OF THE PLANT.

5. COMPLETELY REMOVE ALL ROOTBALL COVERING MATERIALS BEFORE PLANTING.



01 SABAL PALM PLANTING

1/2" = 1'-0"

P-HI-03

FDOT LANDSCAPE PERMIT NUMBER 2022-L-491-00004

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
09.14.21	City Comments	05.31.22	FDOT Comments
10.07.21	City Comments		
10.13.21	City Comments		
03.30.22	FDOT Comments		

JILL COHEN, PLA
FL. LICENSE NUMBER LA1600
JBC PLANNING AND DESIGN
1312 MAJESTY TERRACE
WESTON, FLORIDA 33327

CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

LANDSCAPE DETAILS

SHEET NO. LD-11

Hayley Harrison 6/1/2022 7:50:31 AM D:\HH INC\Projects\JBC\Hillsboro Blvd Trail\03 CAD\2022-05-31 Hillsboro Blvd Trail Landscape.dwg

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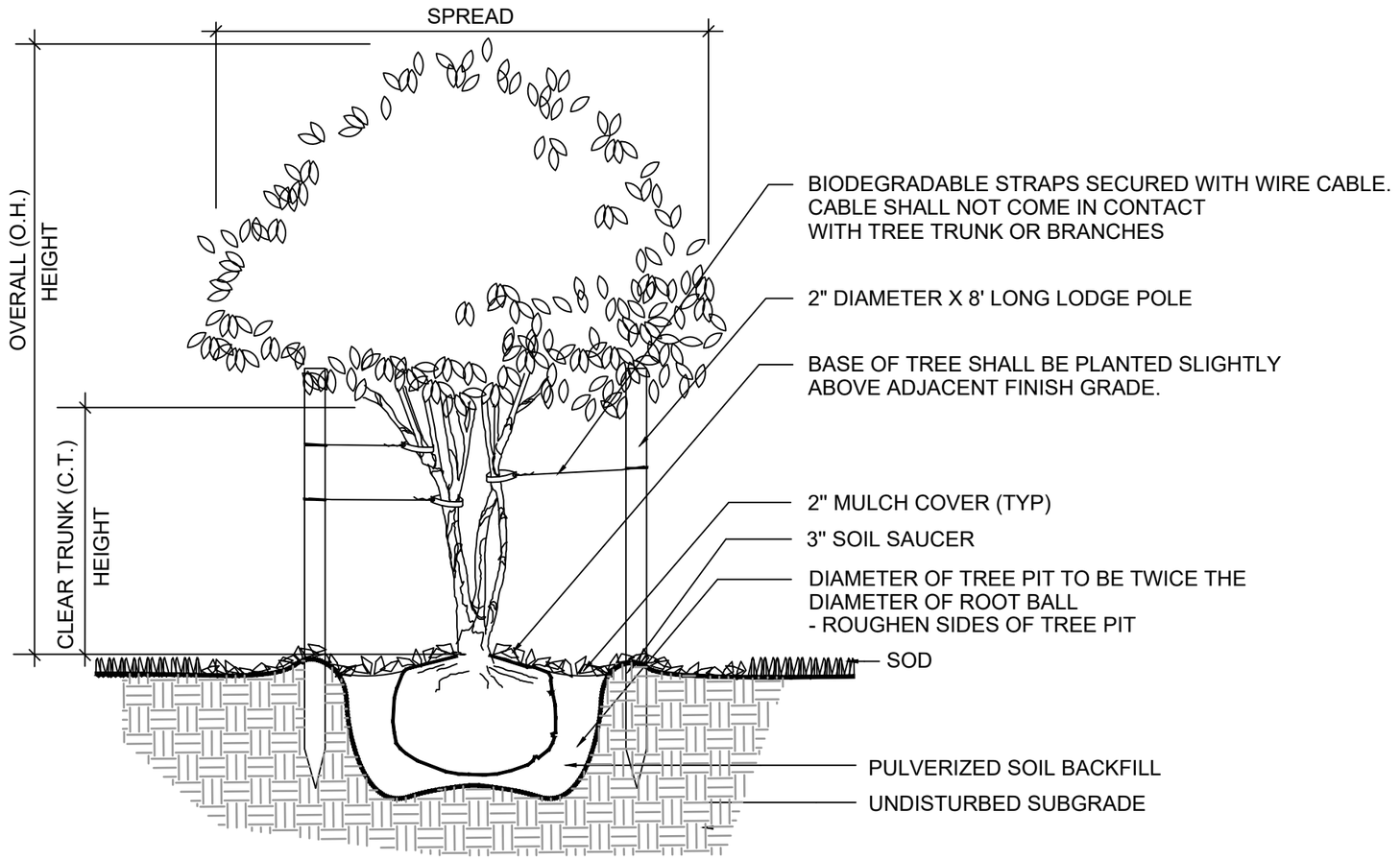

01 MULTI-TRUNK TREE

3/4" = 1'-0"

FDOT LANDSCAPE PERMIT NUMBER 2022-L-491-00004

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

LANDSCAPE DETAILS

SHEET NO. LD-12

Hayley Harrison 6/1/2022 7:50:31 AM D:\HH INC\Projects\JBC\Hillsboro Blvd Trail\03 CAD\2022-05-31 Hillsboro Blvd Trail Landscape.dwg

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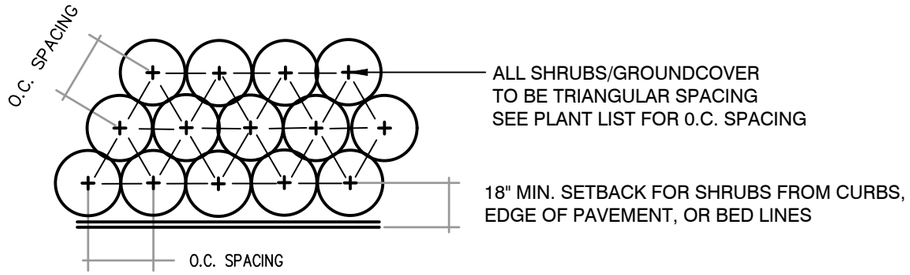

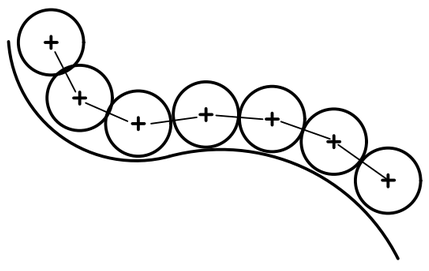

NOTES:
1. THE PERIMETER OF ALL CURVED PLANTING BEDS SHALL BE PLANTED WITH A ROW OF SHRUBS AS SHOWN IN THE PLANS AND AT THE SPACING SHOWN IN THE PLANT LIST. INTERIOR PORTIONS OF EACH BED SHALL BE PLANTED AT APPROPRIATE SPACING ACCORDING TO THIS PLANT SPACING DETAIL.

01 SHRUB SPACING DETAIL

3/4" = 1'-0"

P-HI-05

FDOT LANDSCAPE PERMIT NUMBER 2022-L-491-00004

REVISIONS			
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09.14.21	City Comments	05.31.22	FDOT Comments
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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

LANDSCAPE DETAILS

SHEET NO. LD-13

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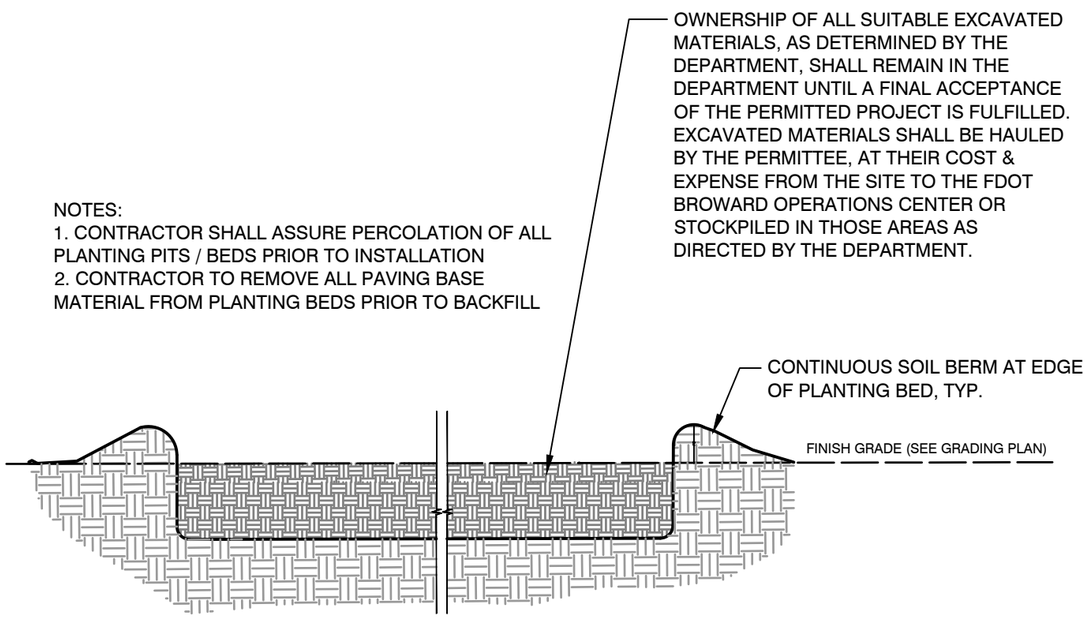
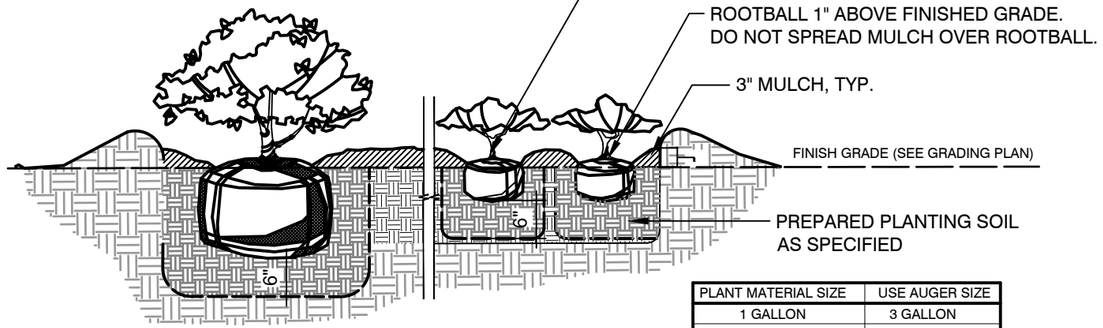
NOTES:
1. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS / BEDS PRIOR TO INSTALLATION
2. CONTRACTOR TO REMOVE ALL PAVING BASE MATERIAL FROM PLANTING BEDS PRIOR TO BACKFILL



1. PLANTING BED PREPARATION



2. PLANT MATERIAL INSTALLATION

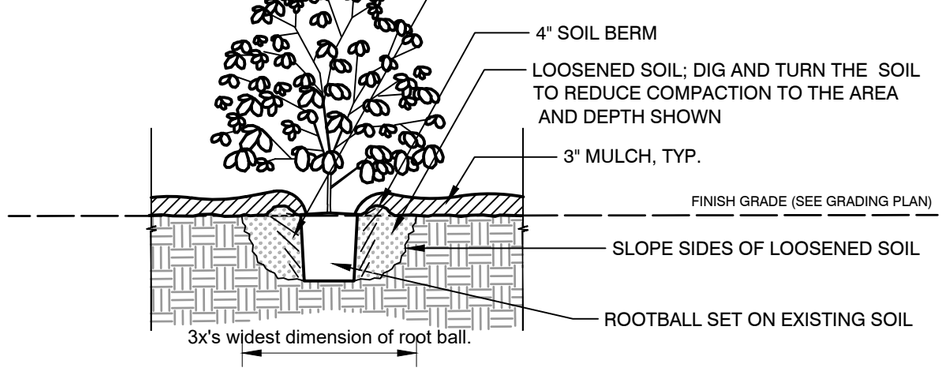
PLANT MATERIAL SIZE	USE AUGER SIZE
1 GALLON	3 GALLON
3 GALLON	7 GALLON
7 GALLON	15 GALLON
15 GALLON AND LARGER	SEE TREE PLTG. DETAILS

01 SHRUB & GROUNDCOVER PLANTING (IN R.O.W.)

3/4" = 1'-0" P-HI-02

1. PLANTING BED PREPARATION

BROWARD COUNTY STANDARD:
REMOVE ALL PLANT MATERIAL NOT NOTED TO REMAIN.
APPLY HERBICIDE MINIMUM 7 DAYS PRIOR TO PLANTING.
DO NOT REMOVE NATIVE SOIL FROM PLANTING BEDS.



2. PLANT MATERIAL INSTALLATION

02 SHRUB & GROUNDCOVER PLANTING (IN PRESERVE)

3/4" = 1'-0" P-HI-04

FDOT LANDSCAPE PERMIT NUMBER 2022-L-491-00004

REVISIONS			
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1312 MAJESTY TERRACE
WESTON, FLORIDA 33327

CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

LANDSCAPE DETAILS

SHEET NO. LD-14

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PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CALIPER	SPECIFICATION	NATIVE/DROUGHT
	MF	9	Myrcianthes fragrans	Simpson`s Stopper	Multitrunk	45 gal.; 8`-10` ht.	Native & Drought Tolerant
	P7	26	Pinus elliotti densiflora	South Florida Slash Pine	0.75" Cal.	7 Gal.; 2` ht.	Native & Drought Tolerant
	P15	16	Pinus elliotti densiflora	South Florida Slash Pine	1.5" Cal.	15 Gal.; 5` ht.	Native & Drought Tolerant
	P30	21	Pinus elliotti densiflora	South Florida Slash Pine	3" Cal.	30 gal.; 11` ht.	Native & Drought Tolerant
	SP	29	Sabal palmetto	Sabal Palm	---	BOOTED; SEE PLAN FOR CLEAR TRUNK HIGHT	Native & Drought Tolerant
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES	NATIVE/DROUGHT
	AV	183	Andropogon virginicus	Broomsedge Bluestem	1 gal.	Full	Native & Drought Tolerant
	BH	49	Baccharis halimifolia	Groundseltree	3 gal.	Full & well-branched	Native & Drought Tolerant
	CA	32	Callicarpa americana	American Beautyberry	3 gal.	Full & well-branched	Native & Drought Tolerant
	MN	35	Melanthera nivea	Snow Squarestem	3 gal.	Full & well-branched	Native & Drought Tolerant
	MC	227	Muhlenbergia capillaris	Pink Muhly Grass	3 gal.	Full	Native & Drought Tolerant
	PC	60	Psychotria nervosa	Wild Coffee	3 gal.	Full & well-branched	Native & Drought Tolerant
	SC	59	Serenoa repens	Saw Palmetto	15 gal.	24" x 24"	Native & Drought Tolerant
	SS	34	Solidago stricta	Slender Goldenrod	1 gal.	Full	Native & Drought Tolerant
	ZF	100	Zamia floridana	Coontie Palm	7 gal.	18" x 18"	Native & Drought Tolerant
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPECIFICATION	NATIVE/DROUGHT
	WM1	847	Liatris gracilis + Coreopsis leavenworthii	Wildflower Mix 1	1 gal.	Full	Native and Drought Tolerant
	LM	197	Licania michauxii	Gopher Apple	liners	Well-rooted seedling, 3"- 6" ht.	Native and Drought Tolerant
	PM	816	Paspalum monostachyum	Gulfdune Paspalum	liners		Native and Drought Tolerant
	PN	2,135	Phyla nodiflora	Frogsfruit	1 gal.	Full	Native and Drought Tolerant
	WM2	382	Pityopsis graminifolia + Salvia misella	Wildflower Mix 2	1 gal.	Full	Native and Drought Tolerant

REPLACEMENT CANOPY (SF)
2,700
2,080
1,280
1,680
2,320
TOTAL (SF): 11,340

FDOT LANDSCAPE PERMIT NUMBER 2022-L-491-00004

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR–810	BROWARD	----

PLANT SCHEDULE

SHEET NO. LD-15

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Hillsboro Blvd. Pathway

OPINION OF PROBABLE COST

ITEM NO.	FDOT ITEM NO.	SYMBOL	DESCRIPTION	COMMENTS	UNIT	SHEET NUMBERS														UNIT COST	TOTAL COST
						LD-1		LD-2		LD-3		LD-4		LD-5		LD-6		LD-7		TOTAL	
						PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
A			**Landscape Complete - Large Plants, Pay Item no. 058012**																		
1	580-5382	MF	MYRCIANTHES FRAGRANS, SIMPSON'S STOPPER	45 GAL.; MULTI-TRUNK; 8'-10' HT.	EACH					3				2		4				9	$562.00	$5,058.00
2	580-5231	P7	PINUS ELLIOTTII 'DENSIFLORA'; SOUTH FLORIDA SLASH PINE	0.75" CAL.; 7 GAL.; 2' HT.	EACH	4		4						10		4		4		26	$75.00	$1,950.00
3	580-5231	P15	PINUS ELLIOTTII 'DENSIFLORA'; SOUTH FLORIDA SLASH PINE	1.5" CAL.; 15 GAL.; 5' HT.	EACH	3		4						6		1		2		16	$150.00	$2,400.00
4	580-5233	P30	PINUS ELLIOTTII 'DENSIFLORA'; SOUTH FLORIDA SLASH PINE	3" CAL.; 30 GAL.;11" HT.	EACH	5		2						6		5		3		21	$375.00	$7,875.00
5	580-4343	SP	SABAL PALMETTO; SABAL PALM	8'-14' CLEAR TRUNK HT.; BOOTED	EACH									15		13		1		29	$375.00	$10,875.00
6	580-6192	SC	SERENOA REPENS; SAW PALMETTO	15 GAL.; 24" X 24"	EACH			5		8				24		22				59	$300.00	$17,700.00
7	580-7-26	ZF	ZAMIA FLORIDANA	7 GAL.; 18" X 18"	EACH			7		27				28		38				100	$75.00	$7,500.00
B			**Landscape Complete - Small Plants, Pay Item no. 058011**																		
8	580-711-A	AV	ANDROPOGON VIRGINICUS; BROOMSEDGE BLUESTEM	1 GAL.; FULL	EACH	11		31				17		76		48				183	$6.25	$1,143.75
9	580-713-B	BH	BACCHARIS HALIMIFOLIA; GROUNSELTREE	3 GAL.; FULL	EACH	2		6				9		24		6		2		49	$14.95	$732.55
10	580-7443	CA	CALLICARPA AMERICANA; AMERICAN BEAUTYBERRY	3 GAL.; FULL	EACH					5		4		18		5				32	$14.95	$478.40
11		LM	LICANIA MICHAUXII; GOPHER APPLE	LINERS	EACH	197														197	$1.50	$295.50
12	580-713-C	MN	MELANTHERA NIVEA; SNOW SQUARESTEM	3 GAL.; FULL	EACH	2		4				4		13		11		1		35	$14.95	$523.25
13	580-7103	MC	MUHLENBERGIA CAPILLARIS; MUHLY GRASS	3 GAL.; FULL	EACH	18		30		29		19		59		60		12		227	$14.95	$3,393.65
14	580-7283	PC	PSYCHOTRIA NERVOSA; WILD COFFEE	3 GAL.; FULL	EACH	1		14		3		5		17		17		3		60	$14.95	$897.00
15	580-710-D	PM	PASPALUM MONOSTACHYUM; GULFDUNE PASPALUM	LINERS	EACH	179		80				93		299		165				816	$1.50	$1,224.00
16	580-711-E	PN	PHYLA NODIFLORA; FROGSFRUIT	1 GAL.; FULL	EACH	560		621		80				215		605		54		2135	$7.50	$16,012.50
17	580-711-F	SS	SOLIDAGO STRICTA; SLENDER GOLDENROD	1 GAL.; FULL	EACH	15		4				15								34	$7.50	$255.00
18	580-711-G	WM1	WILDFLOWER MIX 1	1 GAL.; FULL	EACH	326		105				440								871	$7.50	$6,532.50
			50% LIATRIS GRACILIS; SLENDER BLAZING STAR																			
			50% COREOPSIS LEAVENWORTHII; LEAVENWORTH'S TICKSEED																			
19	580-711-H	WM2	WILDFLOWER MIX 2	1 GAL.; FULL	EACH			37		28				172		85		60		382	$7.50	$2,865.00
			50% PITYOPSIS GRAMINIFOLIA; SILK GRASS																			
			50% SALVIA MISELLA; CREEPING SAGE																			
C			**LANDSCAPE MISCELLANEOUS**																		
21	580-326-5		MULCH; PINE STRAW		SY	203		190		100		130		407		320		53		1403	$1.75	$2,455.25
22	110-21		TREE PROTECTION FENCING	4' HT. ORANGE MESH FENCING	LF	245		206				146		321		240		74		1232	10	$12,320.00
23	110-23		TREE REMOVAL		EA	4		4								1				9	300	$2,700.00
24	110-22		CANOPY CLEANING AND PRUNING		LS															1	1000	$1,000.00
25			HAND-WATERING	1 YEAR	LS															1	12000	$12,000.00

SUBTOTAL	$ 118,186.35
25% CONTINGENCY	$ 17,727.95
LANDSCAPE TOTAL	$ 135,914.30

FDOT LANDSCAPE PERMIT NUMBER 2022-L-491-00004

REVISIONS			
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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-810	BROWARD	----

SUMMARY OF QUANTITES

SHEET NO. LD-16

Hayley Harrison 6/8/2022 10:07:51 AM D:\HH INC\Projects\JBC\Hillsboro Blvd Trail\03 CAD\2022-05-31 Hillsboro Blvd Trail Landscape.dwg

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State of Florida
County of Broward
City of Coconut Creek
I HEREBY CERTIFY that this is a true and correct copy of Resolution 2024-011
Witness my hand and the Official Seal of The City of Coconut Creek this 1st day of February 20 24
Joseph J. Kavanagh, City Clerk

RESOLUTION NO. 2024-011

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF COCONUT CREEK, FLORIDA, IN SUPPORT OF THE APPLICATION FOR PERMITTING TO THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) TO ALLOW FOR THE PUBLIC IMPROVEMENTS ASSOCIATED WITH THE HILLSBORO BOULEVARD REDEVELOPMENT PROJECT; AUTHORIZING THE CITY MANAGER, OR DESIGNEE, TO EXECUTE THE ASSOCIATED HIGHWAY MAINTENANCE MEMORANDUM OF AGREEMENT AND LANDSCAPE INCLUSIVE MAINTENANCE MEMORANDUM OF AGREEMENT BETWEEN FDOT AND THE CITY; PROVIDING FOR SEVERABILITY; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City of Coconut Creek ("City") supports enhancing existing multimodal infrastructure; and

WHEREAS, the City intends to apply to the Florida Department of Transportation (FDOT) to secure all necessary permits and construction inspections to accept the public improvements associated with the Hillsboro Boulevard Redevelopment Project; and

WHEREAS, the Hillsboro Boulevard Redevelopment Project is generally located within the FDOT right-of-way and/or within County-owned land; and

WHEREAS, a resolution of support from the City of Coconut Creek City Commission for the project is required as part of the FDOT permit application; and

WHEREAS, FDOT staff, the Engineer-of-Record, along with City staff will collaborate to serve as the project management team for the improvements; and

WHEREAS, the parties agree that local stakeholder and community input is essential for the successful completion of the public improvements; and

WHEREAS, the project limits are identified and illustrated in Exhibit "A;" and

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WHEREAS, the project scope is described as an 8-10 foot concrete sidewalk with landscaping improvements as outlined in the Project Scope in Exhibit "B;" and

WHEREAS, FDOT requires that the City execute the Highway Maintenance Memorandum of Agreement (FM No. 429576-5-52-01) to maintain certain improvements (Shared Use Pathway) to Hillsboro Boulevard, attached hereto as Exhibit "C;" and

WHEREAS, FDOT requires that the City execute the Eighth Amendment to the Landscape Inclusive Maintenance Memorandum of Agreement to maintain certain improvements to Hillsboro Boulevard, attached hereto as Exhibit "D;" and

WHEREAS, the public improvements are consistent with the vision established for the Hillsboro Boulevard Redevelopment Project; and

WHEREAS, the parties acknowledge the commitment to pursue implementation of the public improvements illustrated in the plans prepared by Carnahan, Proctor and Cross.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF COCONUT CREEK, FLORIDA:

Section 1: That the foregoing "WHEREAS" clauses are hereby ratified and confirmed as being true and correct and are hereby made a specific part of this resolution. All exhibits attached hereto are incorporated herein and made a specific part of this resolution.

Section 2: That the City supports the project depicted in Exhibit "A" and commits to consider funding the perpetual maintenance associated with the construction improvements related to the Hillsboro Boulevard Redevelopment Project constructed within FDOT right-of-way and, by separate instrument, execute a construction agreement with FDOT associated with the Hillsboro Boulevard Redevelopment Project.

Section 3: That the City endorses FDOT to deliver the project within the City or FDOT's right-of-way.

Section 4: That the City Manager, or designee, is hereby authorized to execute the Highway Maintenance Memorandum of Agreement (FM No. 429576-5-52-01) to maintain certain improvements (Shared Use Pathway) to Hillsboro Boulevard, attached

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hereto as Exhibit "C."

Section 5: That the City Manager, or designee, is hereby authorized to execute the Eighth Amendment to the Landscape Inclusive Maintenance Memorandum of Agreement to maintain certain improvements to Hillsboro Boulevard, attached hereto as Exhibit "D."

Section 6: That if any clause, section, other part or application of this resolution is held by any court of competent jurisdiction to be unconstitutional or invalid, in part or in application, it shall not affect the validity of the remaining portion or applications of this resolution.

Section 7: That this resolution shall be in full force and effect immediately upon its adoption.

Adopted this 25th **day of** January **, 2024.**

Joshua Rydell, Mayor

Attest:

Joseph J. Kavanagh, City Clerk

Rydell	Aye
Welch	Aye
Railey	Aye
Brodie	Aye
Wasserman	Aye

Docusign Envelope ID: 016F9749-4BF3-4EF1-908C-24D56AFB1FC2

SECTION: **86028000**
COUNTY: **BROWARD**
STATE RD: **834**
PERMIT: **2024-L-491-00007**

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

THIS AMENDMENT Number Nine (9) to the Agreement dated May 27, 2009, made and entered into this 8th day of October 20 24 by and between the STATE OF **FLORIDA DEPARTMENT OF TRANSPORTATION** hereinafter called the **DEPARTMENT** and the **CITY OF COCONUT CREEK**, a municipal subdivision of the State of Florida, hereinafter called the **AGENCY**.

W I T N E S S E T H

WHEREAS, the parties entered into the Landscape Inclusive Maintenance Memorandum of Agreement dated, May 27, 2009 (Original Agreement) for the purpose of the AGENCY maintaining landscape improvements on various state roads within the AGENCY'S jurisdiction, including **State Road 834 (Sample Road**); and,

WHEREAS, the DEPARTMENT and the AGENCY have agreed to add additional landscape on **State Road 834 (Sample Road)** in accordance with the Original Agreement; and,

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

1. Pursuant to Page 7, Paragraph 8 of the Original Agreement, the DEPARTMENT will allow an Adjacent Property Owner to construct, via permit, additional landscape improvements within the DEPARTMENT's right-of-way, or to modify an improvement located as indicated in **Exhibit "A"** on **State Road 834 (Sample Road)** from M.P. 4.387 to M.P. 4.455, in accordance with the plans attached as **Exhibit "B".**

2. The AGENCY shall agree to maintain the additional landscape improvements in this Amendment, including the meandering concrete sidewalk, shrubs, and irrigation, in accordance with the Original Agreement's Exhibit "C", Maintenance Plan, Part I, and Part II as follows:

Docusign Envelope ID: 016F9749-4BF3-4EF1-908C-24D56AFB1FC2

II. SPECIFIC PROJECT SITE MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS

A. The design intent for this project is to line the new 12' curved sidewalk path with various low groundcover & shrub materials placed within and along the FDOT sidewalk easement. These plantings follow the City's initiative (code implemented) for a tiered layered planting buffer that fronts the subject property per approved plans.

B. Canopy Trees are intended to be maintained at mature height and spread for their specific type / species. Note: No canopy trees are being proposed within the defined / recorded FDOT sidewalk easements, however, trees that are in close proximity (those trees that will ultimately have canopy overhanging these easements) shall be subject to all applicable maintenance objectives herein, including Live Oaks, Strangler Fig, Japanese Blueberry and Royal Palms. Refer to Part I Pruning, for clear sight window and vertical clear zone pruning requirements.

C. Remove suckering growth from base and clear trunk areas for single and multi-trunked trees on a quarterly basis.

D. To maintain the intended appearance of all palms, apply the latest palm fertilizer recommended by the University of Florida IFAS Extension per the manufacturer's specifications.

E. To maintain the intended appearance of all shrubs or turf grass, apply the latest fertilizer recommended by the University of Florida IFAS Extension per the manufacturer's specifications.

F. Do not remove fronds from self-cleaning palms, unless damaged. Palms with persistent fronds shall only have dead fronds removed, do not remove any green fronds. If it is deemed necessary to prune a palm's fronds, no fronds shall be trimmed above 3 o'clock and 9 o'clock on the horizontal plain.

G. Shrub horizontal growth shall be maintained to prevent foliage from growing beyond the limits of the planting areas shown on the plan. Maintain a 6" minimum setback from the foliage to the edge of curb, pavement, sidewalk and/or other hardscape improvements. Groundcover horizontal growth shall be maintained are 4" from the edge of curb, pavement, sidewalk and/or other hardscape improvements.

H. Maintain the vertical heights of shrubs as follows:

   a. *Philodendron Xanadu*: between 30" and 36", full to ground
   b. *Jatropha (bush form):* between 48" and 60"
   c. *Juniper horizontalis:* between 36" and 48"
   d. *Indian Hawthorne:* between 24" and 30"
   e. *Liriope E.G.:* mature height 18"- 24", do not trim. Remove blades from overhanging sidewalk only.
   f. *Sand Cord Grass:* mature height 36"- 48", do not trim. Remove dead blades once a year.

I. Inspect groundcovers and shrubs on a monthly basis for maintaining full to ground coverage.

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J. Evaluate plant material on a monthly basis for pests, diseases, drought stress or general decline. If required, follow the integrated pest management program established by the Agency to ensure healthy plants.

K. Inspect the irrigation system performance on a monthly basis to ensure the system is providing 100% coverage, does not have sections of low pressure, heads and valves are clean and clear of debris and any damaged irrigation components (i.e., spray nozzles, spray heads, valve boxes, etc.) are repaired or replaced.

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

LIST OF EXHIBITS

Exhibit A - Landscape Maintenance Boundaries
Exhibit B - Landscape Improvement Plans

Docusign Envelope ID: 016F9749-4BF3-4EF1-908C-24D56AFB1FC2

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

CITY OF COCONUT CREEK

By: _____ Date: 9/26/24
Sheila N. Rose, City Manager

Attest:

_____ (SEAL)
Joseph J. Kavanagh, City Clerk

Legal Review:

_____
Terrill C. Pyburn, City Attorney

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

DocuSigned by:
By: John Krane Date: 10/08/2024 | 2:56 PM EDT
A524C9FDE7984A5...
John Krane, P.E., Director of Transportation Development

Attest:

DocuSigned by:
_____ (SEAL)
E14549BD681D471...
Alia Channel, Executive Secretary

Legal Review:

DocuSigned by:
_____
43DE6BB3D3BF464...
Francine Steelman, Office of the General Counsel

Docusign Envelope ID: 016F9749-4BF3-4EF1-908C-24D56AFB1FC2

SECTION: **86028000**
COUNTY: **BROWARD**
STATE RD: **834**
PERMIT: **2024-L-491-00007**

EXHIBIT A

LANDSCAPE MAINTENANCE BOUNDARIES

I. ORIGINAL LIMITS OF INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT FOR STATE ROAD 834 (SAMPLE ROAD):

M.P. 3.008 (State Road 91) to M.P. 5.030 (West of State Road 7)

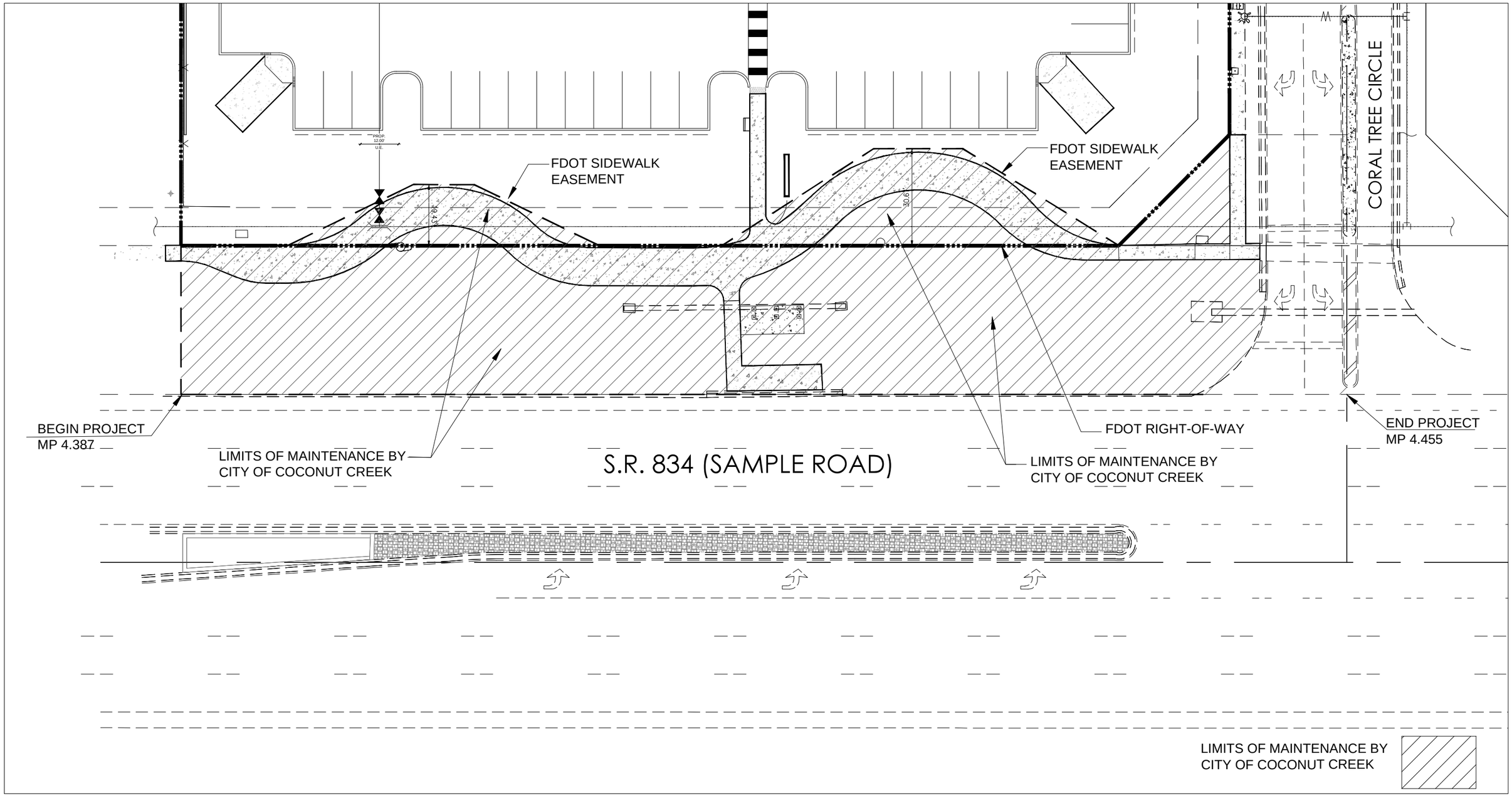
II. LIMITS OF LANDSCAPE IMPROVEMENTS FOR AMENDMENT #9 *:

State Road 834 (Sample Road) from M.P. 4.387 to M.P. 4.455 (Coral Tree Circle)

III. LANDSCAPE IMPROVEMENTS MAINTENANCE RESPONSIBILITIES MAP FOR AMENDMENT #9:

Please See Attached*

***All other limits of the Original Agreement and Amendments shall apply.**



COCONUT CREEK MAZDA

3757 CORAL TREE CIRCLE
COCONUT CREEK, FLORIDA 33073

FDOT - SR 834 & SIDEWALK EASEMENT

N

Graphic Scale in Feet

0 200' 400'

SCALE = 1" = 200'

NOTE: Printed drawing size may have changed from original. Verify scale using Bar Scale above.

LANDSCAPE IMPROVEMENT
MAINTENANCE BOUNDARY MAP

CITY OF COCONUT CREEK, FLORIDA

FDOT LANDSCAPE PERMIT # 2024-L-491-00007

Docusign Envelope ID: 016F9749-4BF3-4EF1-908C-24D56AFB1FC2

SECTION: **86028000**
COUNTY: **BROWARD**
STATE RD: **834**
PERMIT: **2024-L-491-00007**

EXHIBIT B

LANDSCAPE IMPROVEMENT PLANS

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

Please see attached plans prepared by: Lynn Bender, RLA
LBLA, Inc.

Date: May 16, 2024

Sheets: Cover, LP1, LP2, LP5, LP8,
IR-1, IR-2, IR-5, IR-Details

Docusign Envelope ID: 016F9749-4BF3-4EF1-908C-24D56AFB1FC2

FDOT GENERAL NOTES

GOVERNING STANDARD PLANS:

1. Florida Department of Transportation, FY 2023-24 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs) are available at the following website: https://www.fdot.gov/design/standardplans

GOVERNING STANDARD SPECIFICATIONS:

2. Florida Department of Transportation, FY 2023-24 Standard Specifications for Road and Bridge Construction at the following website: https://www.fdot.gov/programmanagement/implemented/specbooks

3. Contractor shall repair all damage done to FDOT property during demolition, relocation &/or installation activities at his sole expense.

4. Any plant material substitution within or impacting the FDOT Right of Way whether requested by the Contractor, Owner, Landscape Architect or other will need to get approval from the FDOT District Landscape Architect.

5. Ownership of all suitable excavated materials, as determined by the Department, shall remain in the Department until a final acceptance of the permitted project is fulfilled. Excavated materials shall be hauled by the Permittee, at their cost & expense from the site to the FDOT Broward Operations Center or stockpiled in those areas as directed by the Department, including asphalt millings.

FDOT PLANTING NOTES

1. For the portion of landscape plant material that will be installed within the FDOT Right of Way, landscape installation shall comply with current applicable FDOT Maintenance Specification 580. Online Reference: ssm5800000wd-722-l17992.pdf (windows.net)
2. For the portion of landscape plant material that will be installed within the FDOT Right of Way refer to the FDOT Standard Plans Index 580-001 Landscape Installation. Online Reference: https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/design/standardplans/2023/580/580-001.pdf
3. Cypress Mulch is not permitted on FDOT right of way. Mulch permitted to be used are Hardwood Mulch (containing no Cypress products), Recycled Mulch or approved equal, certified by the Mulch and Soil Council (MSC). Submit proof of certification to the FDOT District Operations Permit Landscape Inspector upon inspection.
4. Sodded areas will be in accordance with Standard Plans Index 570-010 and Standard Specifications Sections 162, 570, 981, 982, 983, 997 of the Department's latest edition of Governing Design Standards and Standard Specifications. All disturbed areas will be sodded within one (1) week of installation of said permitted work.

FDOT IRRIGATION NOTES

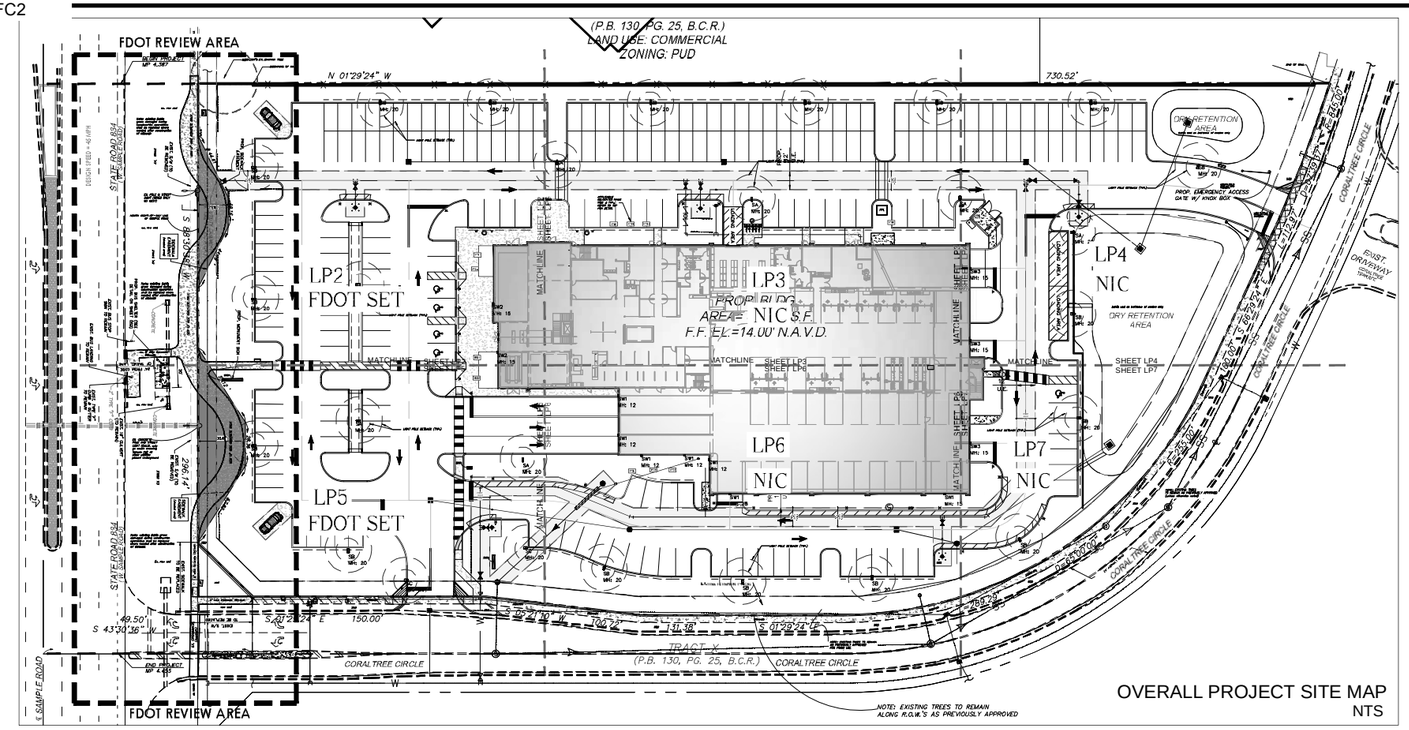
1. The irrigation system shall use the lowest quality water available which adequately and safely meets the water needs of the system. Storm water, reclaim water, or grey water irrigation shall be used whenever possible.
2. FDOT requires 24-hour emergency access to the water source.
3. The contractor shall provide FDOT District Operations Manager with a set of "As-Built" irrigation plans.

NOTE TO CONTRACTOR:

LANDSCAPE INSTALLATION METHODS SHALL MEET OR EXCEED FDOT STANDARD PLANS INDEX 580-001 LANDSCAPE INSTALLATION FOR ALL PLANT MATERIAL INSTALLED WITHIN THE FDOT RIGHT OF WAY.

https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/maintenance/jul22/ssm5800000wd-722-l17992.pdf?sfvrsn=1abf91a1_2

FDOT STANDARD INDEX 580-001 SHOWN BELOW OR REFERENCE PURPOSES & SHALL APPLY FOR ANY & ALL WORK PERFORMED WITHIN FDOT ROW / EASEMENTS



OVERALL PROJECT SITE MAP
NTS

LOCATION MAP
NTS

SHEET INDEX - FDOT PERMIT ONLY

COVER
OVERALL LANDSCAPE PLAN ____ LP1
LANDSCAPE PLAN ____ LP2
LANDSCAPE PLAN ____ LP5
LANDSCAPE DETAILS & SPECIFICATIONS ____ LP8
OVERALL IRRIGATION PLAN ____ IR-1
IRRIGATION PLAN ____ IR-2
IRRIGATION PLAN ____ IR-5
IRRIGATION DETAILS & SPECIFICATIONS ____ IR-8

TO BE CONTACTED PRIOR TO ANY TYPE OF EXCAVATION WORK

811 SUNSHINE STATE ONE-CALL OF FLORIDA, INC. — KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG — It's fast. It's free. It's the law — www.callsunshine.com

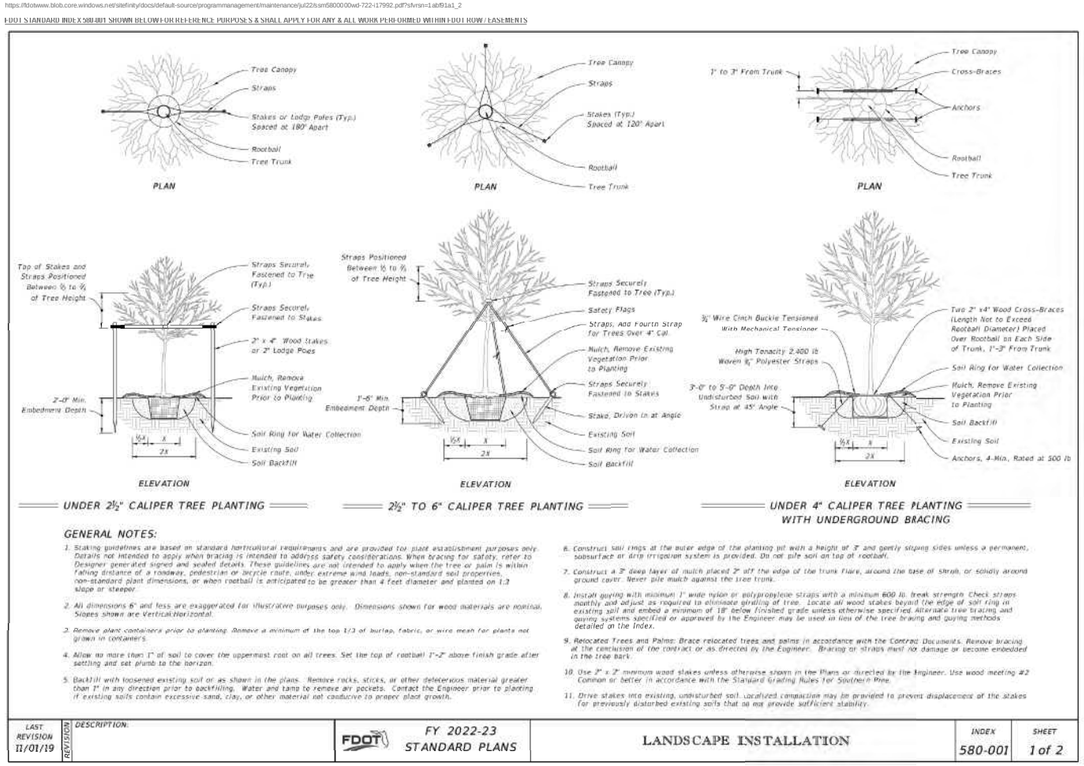
LIST OF NON-STANDARD FDOT COMPONENTS

The following landscape & irrigation items are proposed within the FDOT Sidewalk Easement: (designated & labeled in gray shaded areas along the proposed 12' wide concrete sidewalk)

1. shrubs
2. groundcover
3. root barrier
4. irrigation heads & lateral lines

Refer to applicable LP & IR sheets for specific information of each non-standard item.

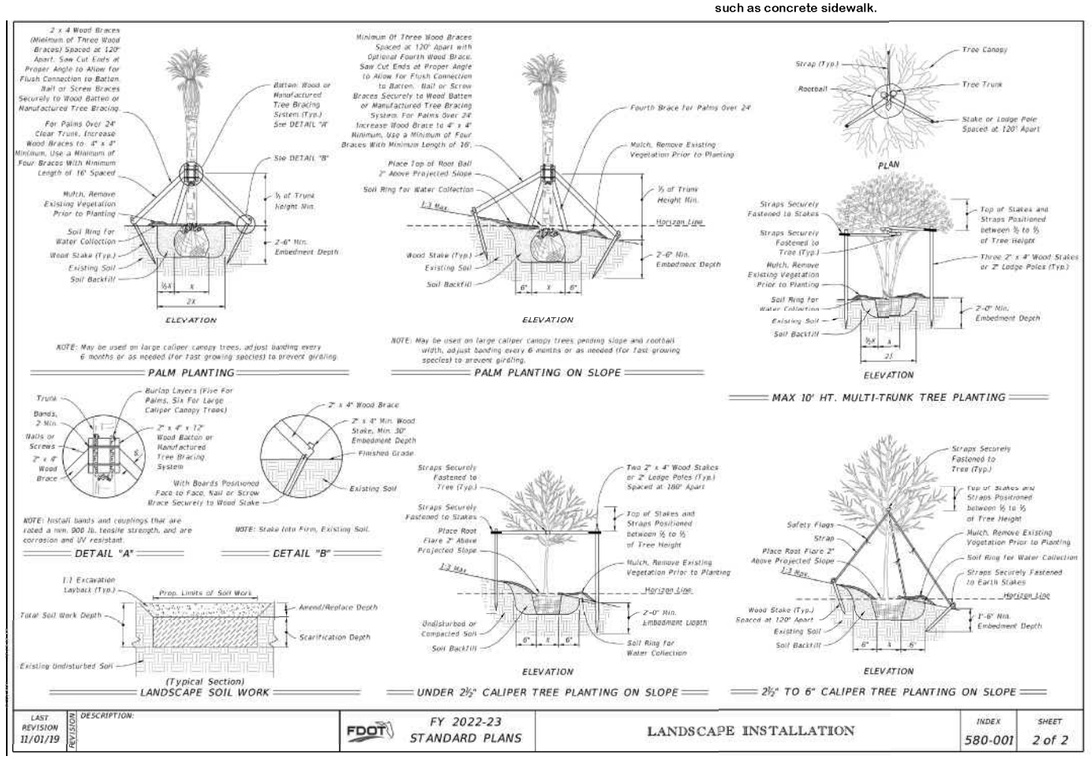
NOTE: Refer to Civil Engineering plans for Hardscape items such as concrete sidewalk.



GENERAL NOTES:

1. Staking guidelines are based on standard horticultural requirements and are provided for plant establishment purposes only. Details not intended to apply when bracing is intended to address safety considerations. When bracing for safety, refer to Designer generated signed and sealed details. These guidelines are not intended to apply when the tree or palm is within falling distance of a roadway, pedestrian or bicycle route, under extreme wind loads, non-standard soil properties, non-standard plant dimensions, or when rootball is anticipated to be greater than 4 feet diameter and planted on 1:3 slope or steeper.
2. All dimensions 6" and less are exaggerated for illustrative purposes only. Dimensions shown for wood materials are nominal. Slopes shown are Vertical:Horizontal.
3. Remove plant containers prior to planting. Remove a minimum of the top 1/3 of burlap, fabric, or wire mesh for plants not grown in containers.
4. Allow no more than 1" of soil to cover the uppermost root on all trees. Set the top of rootball 1"-2" above finish grade after settling and set plumb to the horizon.
5. Backfill with loosened existing soil or as shown in the plans. Remove rocks, sticks, or other deleterious material greater than 1" in any direction prior to backfilling. Water and tamp to remove air pockets. Contact the Engineer prior to planting if existing soils contain excessive sand, clay, or other material not conducive to proper plant growth.
6. Construct soil rings at the outer edge of the planting pit with a height of 3" and gently sloping sides unless a permanent, subsurface or drip irrigation system is provided. Do not pile soil on top of rootball.
7. Construct a 3" deep layer of mulch placed 2" off the edge of the trunk flare, around the base of shrub, or solidly around ground cover. Never pile mulch against the tree trunk.
8. Install guying with minimum 1" wide nylon or polypropylene straps with a minimum 600 lb. break strength. Check straps monthly and adjust as required to eliminate girdling of tree. Locate all wood stakes beyond the edge of soil ring in existing soil and embed a minimum of 18" below finished grade unless otherwise specified. Alternate tree bracing and guying systems specified or approved by the Engineer may be used in lieu of the tree bracing and guying methods detailed on the Index.
9. Relocated Trees and Palms: Brace relocated trees and palms in accordance with the Contract Documents. Remove bracing at the conclusion of the contract or as directed by the Engineer. Bracing or straps must not damage or become embedded in the tree bark.
10. Use 2" x 2" minimum wood stakes unless otherwise shown in the Plans or directed by the Engineer. Use wood meeting #2 Common or better in accordance with the Standard Grading Rules for Southern Pine.
11. Drive stakes into existing, undisturbed soil. Localized compaction may be provided to prevent displacement of the stakes for previously disturbed existing soils that do not provide sufficient stability.

LAST REVISION 11/01/19	DESCRIPTION:	FDOT FY 2022-23 STANDARD PLANS	LANDSCAPE INSTALLATION	INDEX 580-001	SHEET 1 of 2



LAST REVISION 11/01/19	DESCRIPTION:	FDOT FY 2022-23 STANDARD PLANS	LANDSCAPE INSTALLATION	INDEX 580-001	SHEET 2 of 2

DESIGN SPEED = 45 MPH
FDOT LANDSCAPE PERMIT # 2024-L-491-00007

COVER

FDOT LANDSCAPE & IRRIGATION COVER SHEET

FDOT SET : COVER, LP1, LP2, LP5 & LP8 AND IR-1, IR-2, IR-5 & IR-8 ONLY

REVISION		DATE
1	FDOT comments (added cover sheet)	4/17/24
2	COA comments	5/16/24

Lynn M Bender — Digitally signed by Lynn M Bender Date: 2024.05.16 19:38:47 -04'00'

LBLA, Inc.
Landscape Architecture
5610 Adair Way
Lake Worth, FL 33467
Phone: 561-644-3237
LbenderLarch@gmail.com
FL-LA6666715

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CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY LA, ARCHITECT &/OR ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

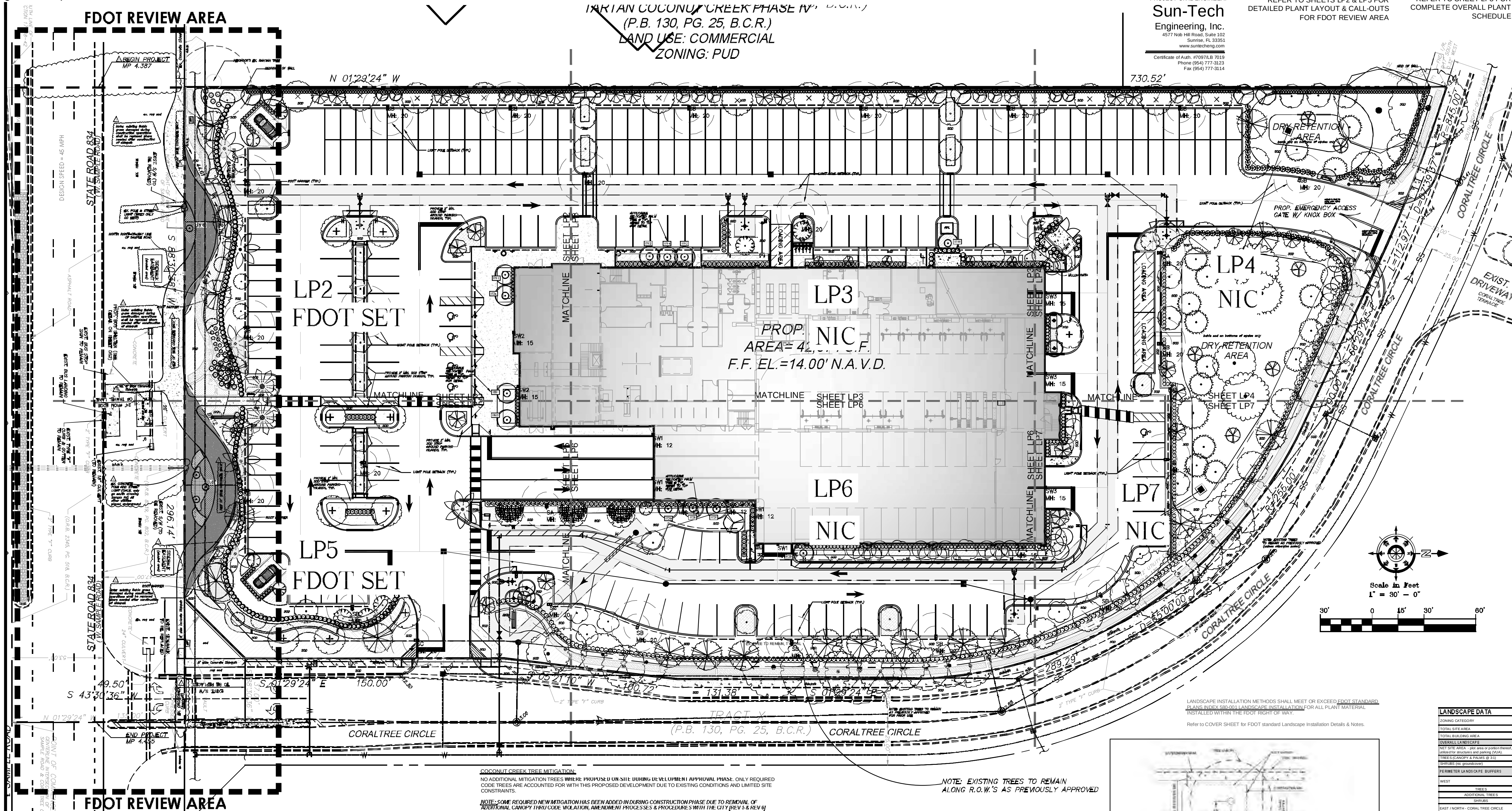
COCONUT CREEK MAZDA
3757 CORAL TREE CIRCLE
COCONUT CREEK, FLORIDA 33073
FDOT - SR 834 & SIDEWALK EASEMENT
COVER SHEET & APPLICABLE PERMIT REQUIREMENTS

LYNN M BENDER — REGISTERED LANDSCAPE ARCHITECT — LA6666715 — STATE OF FLORIDA — 5/6/24

PROJECT NO. 20-569	CADD I.D. MAZDA LP
DRAWN BY : LMB	
CHECKED BY : LMB	
SCALE : N/A	
DATE : 04-17-2024	

SHEET : COVER

Docusign Envelope ID: 016F9749-4BF3-4EF1-908C-24D56AFB1FC2



PROJECT CIVIL ENGINEER:
Sun-Tech Engineering, Inc.
4577 Nob Hill Road, Suite 102
Sunrise, FL 33351
www.suntecheng.com
Certificate of Auth. #7097/LB 7019
Phone (954) 777-3123
Fax (954) 777-3114

REFER TO SHEETS LP2 & LP5 FOR DETAILED PLANT LAYOUT & CALL-OUTS FOR FDOT REVIEW AREA

REFER TO SHEET LP8 FOR COMPLETE OVERALL PLANT SCHEDULE

code-MIT - mitigation
code-E - existing
code-T - transplanted

TREE & PALM LEGEND

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME
A - SHADE TREE			
	AR	4	Acer rubrum Red Maple
	AR-E	2	Acer rubrum Red Maple
	BS	4	Bursera simaruba Gumbo Limbo
	CE	18	Conocarpus erectus Buttonwood
	FA-MIT	1	Ficus aurea Strangler Fig
	FB-E	1	Ficus benghalensis Indian Banyan
	QL-E	13	Quercus laurifolia Laurel Oak
	QV	31	Quercus virginiana Southern Live Oak
	QV-MIT	19	Quercus virginiana Southern Live Oak
	QV-E	15	Quercus virginiana Southern Live Oak
	TA-MIT	6	Taxodium ascendens Pond Cypress
	TD	12	Taxodium distichum Bald Cypress
	TD-E	3	Taxodium distichum Bald Cypress
B - INTERMEDIATE			
	CO10	25	Chrysophyllum oliviforme Satinleaf
	CR	6	Clusia rosea Autograph Tree
	CD	9	Coccoloba diversifolia Pigeon Plum
	CS10	6	Cordia sebestena Orange Geiger Tree
	ED	9	Elaeocarpus decipiens Japanese Blueberry Tree
	LS	9	Lagerstroemia speciosa Queen`s Crape Myrtle
C - SMALL TREE			
	CES	1	Conocarpus erectus `Sericeus` Silver Buttonwood
	EF	13	Eugenia foetida Spanish Stopper
	JAT	9	Jatropha integerrima Spicy Jatropha
	LI	6	Lagerstroemia x `Muskogee` Crape Myrtle
	MF	4	Myrcianthes fragrans Simpson's Stopper
D - PALMS			
	PD	2	Phoenix dactylifera `Medjool` Date Palm
	PHO-T	1	Phoenix roebelenii Pygmy Date Palm
	RE	6	Roystonea elata Florida Royal Palm
	SP-MIT	5	Sabal palmetto Cabbage Palmetto
	SP	30	Sabal palmetto Cabbage Palmetto
	SP-T	5	Sabal palmetto Cabbage Palmetto
	VM-T	12	Veitchia merrillii Christmas Palm

REVISION		DATE
1	FDOT COMMENTS	4/17/24
2	COA comments	5/16/24

Lynn M Bender
Digitally signed by Lynn M Bender
Date: 2024.05.16 19:43:07 -04'00'

LBLA, Inc.
Landscape Architecture
5610 Adair Way
Lake Worth, FL 33467
Phone: 561-644-3237
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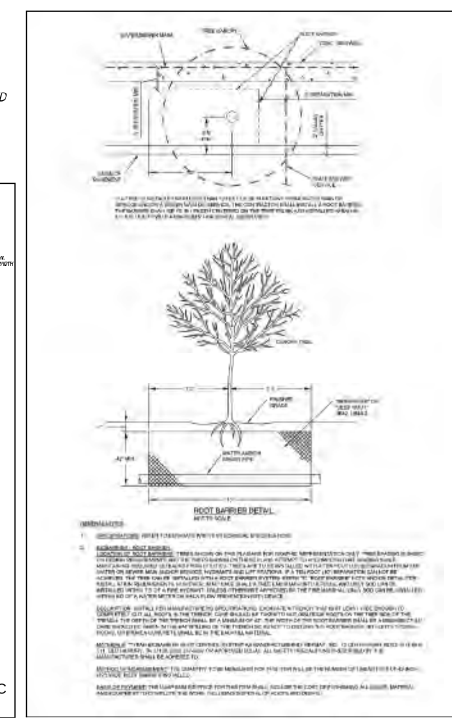
CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY LA, ARCHITECT &/OR ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

COCONUT CREEK MAZDA
3757 CORAL TREE CIRCLE
COCONUT CREEK, FLORIDA 33073
FDOT - SR 834 & SIDEWALK EASEMENT
OVERALL LANDSCAPE PLAN

LYNN M BENDER
REGISTERED LANDSCAPE ARCHITECT
LA6666715 STATE OF FLORIDA
5/16/24
seal

LANDSCAPE INSTALLATION METHODS SHALL MEET OR EXCEED FDOT STANDARD PLANS INDEX 580-001 LANDSCAPE INSTALLATION FOR ALL PLANT MATERIAL INSTALLED WITHIN THE FDOT RIGHT OF WAY.

Refer to COVER SHEET for FDOT standard Landscape Installation Details & Notes.



LANDSCAPE DATA

LANDSCAPE DATA	PER SECTION 13-443	REQUIRED	PROVIDED
ZONING CATEGORY	C-2 (Commercial)		
TOTAL SITE AREA	217,801 sf (5.00 acres)		
TOTAL BUILDING AREA	42,374 sf		
OVERALL LANDSCAPE			
NET SITE AREA - plot area or portion thereof, not utilized for structures and parking (VUA).	Minimum 20% of net site area		77,912 sf (35.77%)
TREES (CANOPY & PALMS @ 3:1)	1 TREE PER 1000 SF	78 TREES	115 TREES
SHRUBS (nic groundcover)	5 SHRUBS PER 1000 SF	390 SHRUBS	> 390 + SHRUBS
PERIMETER LANDSCAPE BUFFERS			
WEST	730 LF (adj to ex. residential)		
TREES	1 TREE PER 40 LF	18 TREES	18 TREES
ADDITIONAL TREES	3 TREES PER 100 LF	22 TREES	22 TREES
SHRUBS	CONTINUOUS HEDGE		PROVIDED (SEE LP1)
EAST / NORTH - CORAL TREE CIRCLE	* refer to R.O.W. Buffer Detail Graphic for Breakdown of areas		
ROADWAY LANDSCAPE BUFFER 20' & 15' wide portions (based on row width)*	Trees are required : 1 per 2000 SF *	8 TREES	8 TREES
HEDGES, SHRUBS & GROUNDCOVERS 800 LF NIC DRIVEWAYS & 12,800 SF	CONTINUOUS HEDGE PLUS 40 SHRUBS PER 2000 SF PLUS GROUNDCOVER PROVIDING MINIMUM OF 3 TIERS	320 HEDGES 256 SHRUBS & 542 GROUNDCOVERS	325 HEDGES 752 SHRUBS & 930 GROUNDCOVERS
SOUTH - SAMPLE ROAD	* refer to R.O.W. Buffer Detail Graphic for Breakdown of areas		
ROADWAY LANDSCAPE BUFFER 35' wide (based on row width) o.h.w. present on portion of buffer*	Trees are required @ 1 per 2000 SF and 1 per 1000 SF if overhead wires were the O.H.W. are present *	8 TREES	8 TREES
HEDGES, SHRUBS & GROUNDCOVERS 312 LF & 10,950 SF	CONTINUOUS HEDGE PLUS 40 SHRUBS PER 2000 SF PLUS GROUNDCOVER PROVIDING MINIMUM OF 3 TIERS	125 HEDGES 220 SHRUBS & 208 GROUNDCOVERS	125 HEDGES 609 SHRUBS & 700+ GROUNDCOVERS
PARKING LANDSCAPE			
TOTAL # of SPACES	230 SPACES (outside lot including inventory spaces)		
TREES	1 TREE PER 10 SPACES	23 TREES	23 TREES
OTHER VUA LANDSCAPE	**97,540 LESS 6900 = 90,640 / 100		
LANDSCAPE AREA (**refer to site plan for additional calculations)	1 SF OF LANDSCAPE AREA PER 100 SF OF PAVED AREA	906 SF	>1000 SF
DIVIDER MEDIANS (130 L.F.)	1 TREE PER 40 LF	3 TREES	4 TREES
FOUNDATION LANDSCAPE			
PROPOSED BUILDING TOTAL PERIMETER	961 LF (8,630 sf provided - refer to site plan for detail)		
	1 TREE PER 40 LF	24 TREES	24 TREES
	20 SHRUBS PER 40 LF	480 SHRUBS	> 480 + SHRUBS
	30 GROUNDCOVER PER 40 LF	720 GC	> 720 + GC
STREET TREES	* refer to R.O.W. Buffer Detail Graphic for Breakdown of areas		
CORAL TREE CIRCLE (814 L.F. of frontage, NIC driveways)	Street Trees are required 1 per 40 LF	20 TREES	20 TREES
SAMPLE ROAD (68 L.F. of frontage with O.H.W & approx. 244 L.F. of frontage without O.H.W.)	Street Trees are required 1 per 40 LF and 1 per 30 LF were overhead wires are present *	9 TREES	9 TREES
TOTAL REQUIRED TREES		213 TREES	226 TREES & 60 PALMS* (includes existing, relocated, proposed code & addt. on-site mitigation)
			[illegible]
	40 % MIN shade / canopy	86 TREES MIN	103 EX / CODE TREES & 26 MITIGATION TREES
(refer to plant schedule for qty & % breakdowns of	30% MIN intermediate	64 TREES MIN	64 TREES
tree size categories.)	10% MAX small	22 TREES MAX	16 CODE TREES & 17 MITIGATION TREES
	50% MAX palms	107 PALMS MAX	*8 @ 1:1 & 52 @ 3:1 = 17 = 25 tree credits
NATIVE TREES	50% MIN of 226 total trees provided	113 min native	194 provided (86 %)
NATIVE PALMS	50% MIN of 60 provided	30 min native	46 provided (77 %)
NATIVE SHRUBS (excluding groundcovers)	50% MIN of 5322 provided	2661 min native	2661 provided (50 %)
DIVERSIFICATION (refer to sheet LP-8 for clarification of specific plant ID in plant schedule)	NO MORE THAN 25% OF ANY ONE SPECIES CAN BE USED	25% MAX	YES @ < 25%
	for trees & palms greatest amount used = 65 total live oaks (ex & proposed) of the 286 total trees & palm on-site		greatest % = 23% Live oaks
	for shrubs & groundcovers greatest amount used = 1071 Liriope of the 7425 total shrubs & groundcovers proposed		greatest % = 14 % liriope

PROJECT NO.	CADD I.D.
20-569	MAZDA LP

DRAWN BY : LMB
CHECKED BY : LMB
SCALE : 1" = 30'-0"
DATE : 04-15-2024
SHEET : LP1

IRRIGATION NOTE: (Water source - EXISTING TO BE MODIFIED)
An automatic properly functioning underground irrigation system with a rain sensing cutoff device shall be in compliance with the South Florida Building Code and city Building Code requirements. The rain sensing cutoff device shall be located and installed in such a manner that the building eaves, balconies and similar overhangs do not interfere with the operation of the device. The irrigation system shall be rust free & properly maintained in good working order and provide a minimum coverage of 100% with 50% overlap.

Adequate irrigation of all newly proposed landscaped areas shall be provided for the first full growing season and continue thereafter only as necessary to maintain required vegetation in good and healthy condition. Irrigation systems shall conform to following standards:
a. Irrigation systems shall be continuously maintained in working order and shall be designed so not to overlap water zones or to water impervious areas.
b. No irrigation system shall be installed or maintained abutting any public street which causes water from the system to spurt onto the roadway or to strike passing vehicular traffic.

NOTE: ALL TREES SHALL HAVE BUBBLERS

UTILITIES CONFLICT NOTE:
Landscape, Lighting & Irrigation shall not conflict with and shall maintain a minimum of 6 feet (10 feet preferred) separation from existing and proposed water, wastewater, and drainage.

Trees shall not be placed on the bottom of retention areas and swales centerlines.

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CITY OF COCONUT CREEK
STANDARD LANDSCAPE NOTES

1. All landscape and specifications shall meet or exceed the minimum requirements as provided in the City of Coconut Creek Land Development Code. Plans are incomplete without written notes and specifications.
2. All planting material shall meet or exceed Florida Grade #1 as specified in Grades and Standards for Nursery Plants, current edition. Trees shall not be tipped, topped, or shaped prior to installation.
3. Landscape shall be placed to edge of abutting streets, canals, lakes or other lands.
4. All mechanical equipment, air conditioning, irrigation pump stations and equipment, FPL transformers, pool pumps, etc., must be screened on three (3) sides by landscape shrubs.
NOTE: The quantity of screening shrubs is in addition to the required number of shrubs as provided in the code calculation table. All screening shrubs shall be planted for proper operation of equipment being screened and/or per the requirements of the utility as necessary. All hedge material required for screening purposes shall be planted with branches touching. Adjust on-center spacing as necessary and/or provide additional plants to provide an adequate screen.
5. Sight distance concerns must be maintained for clear sight visibility from thirty (30) inches to seventy-two inches, tree trunks excluded. Measurement shall be made from top of root ball planted at proper elevation.
6. Guying/staking practices shall not permit nails, screws, wires, etc., to penetrate outer surfaces of trees, palms or other plant material. Trees, palms and plant material rejected due to this practice shall be replaced with the inspector on site.
7. Burlap material, wire cages, plastic/canvas straps, etc., must be cut and removed for the top one-half (1/2) depth of the root ball. Trees and shrubs grown in grow bags or grow bag type material must have such material REMOVED ENTIRELY prior to planting the tree or shrub.
8. All plant material shall be free of pests, insects, disease, weeds, etc.
9. All required landscape material shall be installed using a planting soil mix comprised of a type appropriate to the individual proposed plant material and the native soil found on the site.
10. All plant material shall be planted at the proper depth, as originally grown and/or so the top of the root ball is flush or slightly above finished grade immediately after planting. All trees should provide trunk taper when properly planted at the correct planting depth.
11. All plant material shall be watered in at time of planting to eliminate air pockets in the root zone area.
12. Upon completion of work, the site shall be cleared of all debris, superfluous materials, and equipment caused by this permit to the satisfaction of the inspector.
13. Refer to Coconut Creek Fire Equipment Clear Zone diagram to maintain a safe zone fronting fire hydrants.
14. Do not plant trees, shrubs or groundcover within Electric Meter Clear Zone. Provide a safe zone as described by the Electrical Inspector.
15. All landscaped areas shall be provided with an underground fully automatic irrigation system using pop-up sprinklers. System shall provide 100% coverage with 50% overlap (minimum) using rust free water, except preserved areas remaining in natural state. A rain sensor device or switch shall be installed that will override the irrigation system when adequate rainfall has occurred. Water shall not be directed and/or provided onto impervious surfaces and/or be designed or installed to throw water over an impervious surface such as a sidewalk, etc. Hours of operation for all irrigation systems shall be limited to 5:00 p.m. to 8:00 a.m. only or as may be further restricted by South Florida Water Management District or other jurisdictional agency.
16. Irrigation permits and plans shall be submitted for approval at time of building permits.
17. All non-single family or duplex irrigation systems other than City water systems shall require a South Florida Water Management District water use permit prior to issuance of an irrigation permit and installation of the irrigation system as required.
18. All site amenities to include site street lights, landscape common open space, irrigation common open space, buffers, berms, landscape entry features, etc. leading up to and including the model center and/or first certificate of occupancy must be completed and functional prior to issuance of the first requested certificate of occupancy.
19. The height of all required, designed and installed berms shall be from the highest adjacent point whether it is the sidewalk, parking area, vehicular use area, surrounding ground, etc. Where a berm abuts a sidewalk, there shall be a one (1) foot level sod area adjacent to the sidewalk prior to the start of incline for the berm.
20. An inspection is required prior to the backfilling of trees/palms in all parking medians and islands.

NOTE: THIS COMMENT SHEET IS TO BE PLACED ON ALL LANDSCAPE PLANS "AS IS".

COCONUT CREEK TREE MITIGATION:
NO ADDITIONAL MITIGATION TREES WHERE PROPOSED ON-SITE DURING DEVELOPMENT APPROVAL PHASE. ONLY REQUIRED CODE TREES ARE ACCOUNTED FOR WITH THIS PROPOSED DEVELOPMENT DUE TO EXISTING CONDITIONS AND LIMITED SITE CONSTRAINTS.

NOTE: SOME REQUIRED NEW MITIGATION HAS BEEN ADDED IN DURING CONSTRUCTION PHASE DUE TO REMOVAL OF ADDITIONAL CANOPY THRU CODE VIOLATION, AMENDMENT PROCESSES & PROCEDURES WITH THE CITY [REV 5 & REV 6]

REFER TO TREE DISPOSITION CHART AND ATTACHED ARBORISTS REPORT FOR MITIGATION TOTALS AND VALUATIONS.

FINAL MITIGATION AMOUNTS SHALL BE DETERMINED BY CITY.

GREEN CITY PLAN - TREE CANOPY ACHIEVED
PROJECT AREA = 217,801 SF

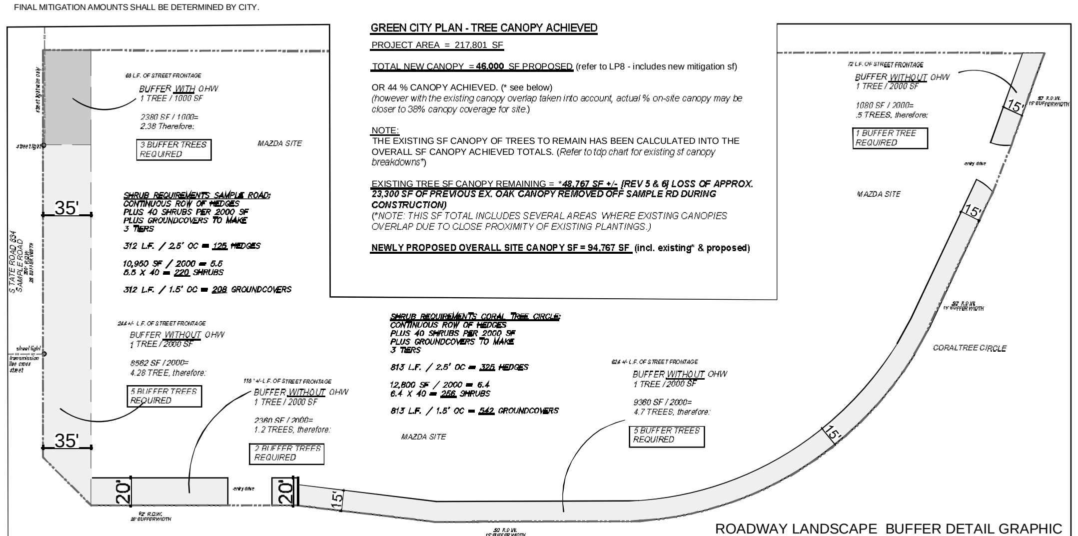
TOTAL NEW CANOPY = **46,000** SF PROPOSED (refer to LP8 - includes new mitigation sf)

OR 44 % CANOPY ACHIEVED. (* see below)
(however with the existing canopy overlap taken into account, actual % on-site canopy may be closer to 38% canopy coverage for site.)

NOTE:
THE EXISTING SF CANOPY OF TREES TO REMAIN HAS BEEN CALCULATED INTO THE OVERALL SF CANOPY ACHIEVED TOTALS. (*Refer to tdp chart for existing sf canopy breakdowns**)

EXISTING TREE SF CANOPY REMAINING = ***48,767 SF +/- [REV 5 & 6] LOSS OF APPROX. 23,300 SF OF PREVIOUS EX. OAK CANOPY REMOVED OFF SAMPLE RD DURING CONSTRUCTION)***
*(*NOTE: THIS SF TOTAL INCLUDES SEVERAL AREAS WHERE EXISTING CANOPIES OVERLAP DUE TO CLOSE PROXIMITY OF EXISTING PLANTINGS.)*

NEWLY PROPOSED OVERALL SITE CANOPY SF = 94,767 SF (incl. existing* & proposed)



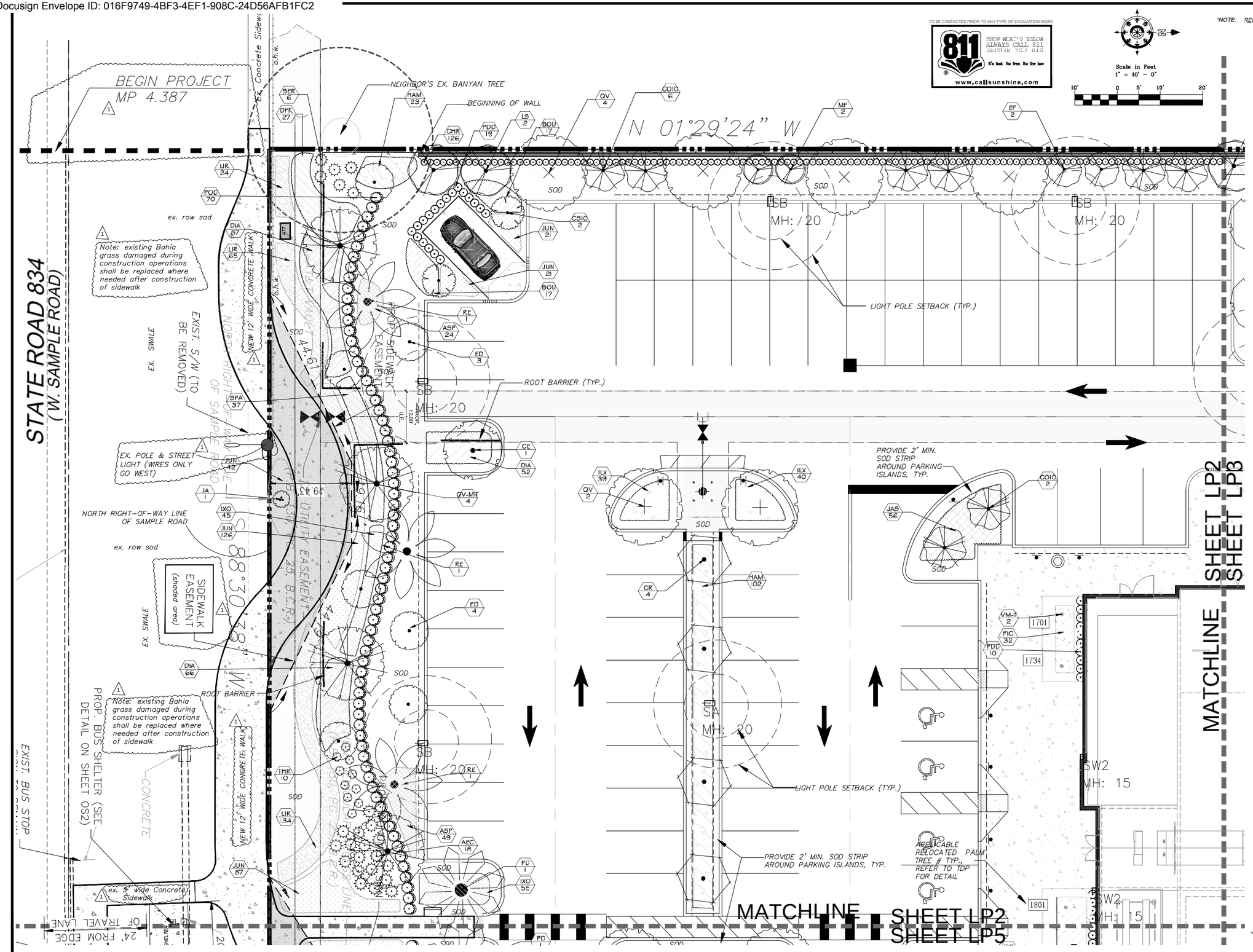
ROADWAY LANDSCAPE BUFFER DETAIL GRAPHIC
NTS

FDOT LANDSCAPE PERMIT # 2024-L-491-00007

LP1 1"=30'-0"
OVERALL LANDSCAPE PLAN - KEY FOR FDOT SR. 834 ONLY

FDOT SET : COVER, LP1, LP2, LP5, & LP8 ONLY

Docusign Envelope ID: 016F9749-4BF3-4EF1-908C-24D56AFB1FC2



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Scale in Feet
1" = 10' – 0"
10' 0 5' 10' 20'

*NOTE: REFER TO LP8 FOR COMPLETE OVERALL PLANT SCHEDULE

code-MIT = mitigation
code-E = existing
code-T = transplanted

PLANT LEGEND OVERALL

CODE	QTY	BOTANICAL / COMMON NAME
A- SHADE TREE		
AR	4	Acer rubrum Red Maple
AR-E	2	Acer rubrum Red Maple
BS	4	Bursera simaruba Gumbo Limbo
CE	18	Conocarpus erectus Buttonwood
FA-MIT	1	Ficus aurea Strangler Fig
FB-E	1	Ficus benghalensis Indian Banyan
QL-E	13	Quercus laurifolia Laurel Oak
QV	31	Quercus virginiana Southern Live Oak
QV-MIT	19	Quercus virginiana Southern Live Oak
QV-E	15	Quercus virginiana Southern Live Oak
TA-MIT	6	Taxodium ascendens Pond Cypress
TD	12	Taxodium distichum Bald Cypress
TD-E	3	Taxodium distichum Bald Cypress
B - INTERMEDIATE		
CO10	25	Chrysophyllum oliviforme Satinleaf
CR	6	Clusia rosea Autograph Tree
CD	9	Coccoloba diversifolia Pigeon Plum
CS10	6	Cordia sebestena Orange Geiger Tree
ED	9	Elaeocarpus decipiens Japanese Blueberry Tree
LS	9	Lagerstroemia speciosa Queen 's Crape Myrtle
C - SMALL TREE		
CES	1	Conocarpus erectus `Sericeus` Silver Buttonwood
EF	13	Eugenia foetida Spanish Stopper
JAT	9	Jatropha integerrima Spicy Jatropha
LI	6	Lagerstroemia x `Muskogee` Crape Myrtle
MF	4	Myrcianthes fragrans Simpson's Stopper
D - PALMS		
PD	2	Phoenix dactylifera `Medjool` Date Palm
PHO-T	1	Phoenix roebelenii Pygmy Date Palm
RE	6	Roystonea elata Florida Royal Palm
SP-MIT	5	Sabal palmetto Cabbage Palmetto
SP	30	Sabal palmetto Cabbage Palmetto
SP-T	5	Sabal palmetto Cabbage Palmetto
VM-T	12	Veitchia merrillii Christmas Palm
SHRUBS		
AEC	23	Aechmea blanchetiana `Orangeade` Orangeade Bromeliad
CHR	423	Chrysobalanus icaco `Red Tip` Red Tip Cocoplum
CLU	253	Clusia guttifera Small Leaf Clusia
CLU6	86	Clusia guttifera Small Leaf Clusia
CON	90	Conocarpus erectus Buttonwood
COR	14	Cordyline terminalis `Auntie Lou` Auntie Lou Ti Plant
JA	4	Jatropha integerrima Spicy Jatropha
MYR	152	Myrcianthes fragrans Simpson's Stopper
PRC	51	Philodendron x `Rojo Congo` Rojo Congo Philodendron
POD	188	Podocarpus macrophyllus Podocarpus
PDD	60	Podocarpus macrophyllus `Dwarf Pringles` Dwarf Podocarpus
PSY	53	Psychotria nervosa Wild Coffee
SER	6	Serenoa repens Saw Palmetto
THR	80	Thryallis glauca Thryallis
SHRUB AREAS		
BOU	78	Bougainvillea x `Raspberry Ice` Bougainvillea bush
DIA	205	Dianella tasmanica Flax Lily
FIC	424	Ficus microcarpa `Green Island` Green Island Ficus
HAM	337	Hamelia patens Firebush
ILX	570	Ilex vomitoria `Schillings Dwarf` Dwarf Schillings Holly `Hedge`
IXO	347	Ixora taiwanensis Dwf Ixora Petite Red
JAS	305	Jasminum multiflorum Downey Jasmine
MUH	162	Muhlenbergia capillaris Pink Muhly Grass
NEP	171	Nephrolepis exaltata Boston Fern
PHX	92	Philodendron xanadu Xanadu Philodendron
RHA	128	Rhaphiolepis indica `Alba` White Indian Hawthorn
TRI	183	Schefflera arboricola `Trinette` Schefflera trinette
SPA	160	Spartina bakeri Sand Cord Grass
DFK	302	Tripacum dactyloides Dwarf Fakahatchee
ZAM	235	Zamia floridana Fl.Coontie
GROUND COVERS		
ASP	396	Asparagus densiflorus `Myers` Myers Asparagus Fern
JUN	664	Juniperus horizontalis Creeping Juniper
LIR	1,071	Liriope muscari `Evergreen Giant` Evergreen Giant Border Grass
TURF		
SOD-B	8,081 sf	Paspalum notatum Bahia Grass
SOD	33,640 sf	Stenotaphrum secundatum `Floritam` Floritam St. Augustine Sod

*NOTE: ALL SOD TO BE ST. AUGUSTINE, EXCEPT FOR BOTTOM OF DRY RETENTION PONDS WHICH SHALL BE BAHIA SOD. FINAL QUANTITIES SHALL BE DETERMINED AT TIME OF PERMITTING & VERIFIED IN THE FIELD BY INSTALLER.

REVISION		DATE
1	FDOT comments	4/17/24
2	COA comments	5/16/24

Lynn M Bender — Digitally signed by Lynn M Bender Date: 2024.05.16 19:44:42 -04'00'

LBLA, Inc.
Landscape Architecture
5610 Adair Way
Lake Worth, FL 33467
Phone: 561-644-3237
LbenderLarch@gmail.com
FL-LA6666715

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CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY LA, ARCHITECT &/OR ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

COCONUT CREEK MAZDA
3757 CORAL TREE CIRCLE
COCONUT CREEK, FLORIDA 33073
FDOT - SR 834 & SIDEWALK EASEMENT
LANDSCAPE PLAN

REGISTERED LANDSCAPE ARCHITECT LYNN M. BENDER NO. 6666715 STATE OF FLORIDA 5/16/24

PROJECT NO.	20-569
CADD I.D.	MAZDA LP
DRAWN BY :	LMB
CHECKED BY :	LMB
SCALE :	1" = 10'-0"
DATE :	04-20-2021
SHEET :	LP2

FDOT LANDSCAPE PERMIT # 2024-L-491-00007

LP2 1"=10'-0" LANDSCAPE PLAN : FOR FDOT S.R. 834 ONLY

FDOT SET : COVER, LP1, LP2, LP5 & LP8 ONLY

Docusign Envelope ID: 016F9749-4BF3-4EF1-908C-24D56AFB1FC2

MATCHLINE SHEET LP2
MATCHLINE SHEET LP5
MATCHLINE SHEET LP6

'NOTE: REFER TO LP8 FOR COMPLETE OVERALL PLANT SCHEDULE

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PLANT LEGEND OVERALL

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ILX	570	Ilex vomitoria `Schillings Dwarf` Dwarf Schillings Holly `Hedge`
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LIR	1,071	Liriope muscari `Evergreen Giant` Evergreen Giant Border Grass
TURF		
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SOD	33,640 sf	Stenotaphrum secundatum `Floritam` Floritam St. Augustine Sod

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REVISION		DATE
1	FDOT comments	4/17/24
2	COA comments	5/16/24

Lynn M Bender — Digitally signed by Lynn M Bender Date: 2024.05.16 19:45:02 -04'00'

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5610 Adair Way
Lake Worth, FL 33467
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COCONUT CREEK MAZDA

3757 CORAL TREE CIRCLE
COCONUT CREEK, FLORIDA 33073

FDOT - SR 834 & SIDEWALK EASEMENT
LANDSCAPE PLAN

REGISTERED LANDSCAPE ARCHITECT LYNN M. BENDER LIC. NO. 6666715 STATE OF FLORIDA — 4/20/21

PROJECT NO.	20-569
CADD I.D.	MAZDA LP
DRAWN BY :	LMB
CHECKED BY :	LMB
SCALE :	1" = 10'-0"
DATE :	04-20-2021
SHEET :	LP5

MMOA Page 11 of 18

5 OF 8 SHEETS

FDOT LANDSCAPE PERMIT # 2024-L-491-00007

LP5 1"=10'-0" LANDSCAPE PLAN : FOR FDOT S.R. 834 ONLY

FDOT SET : COVER, LP1, LP2, LP5 & LP8 ONLY

Docusign Envelope ID: 016F9749-4BF3-4EF1-908C-24D56AFB1FC2

NOTE TO CONTRACTOR:

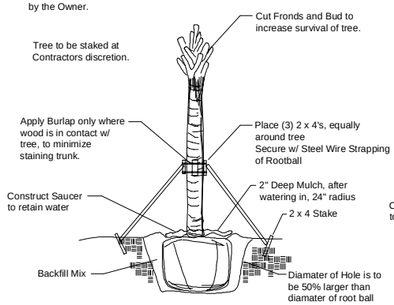
LANDSCAPE INSTALLATION METHODS SHALL MEET OR EXCEED FDOT STANDARD PLANS INDEX 580-001 LANDSCAPE INSTALLATION FOR ALL PLANT MATERIAL INSTALLED WITHIN THE FDOT RIGHT OF WAY.

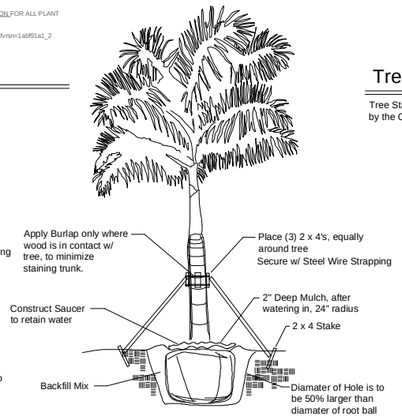
https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/maintenance/jul22/ssm5800000wd-722-t17992.pdf?sfvrsn=1abf91a1_2

REFER TO SHEET LP8A FOR FDOT STANDARD DETAILS AND SPECIFICATIONS

Palm Tree Staking Detail

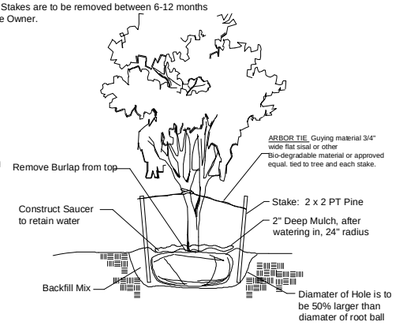
Tree Stakes are to be removed between 6-12 months by the Owner.





Tree Staking Detail

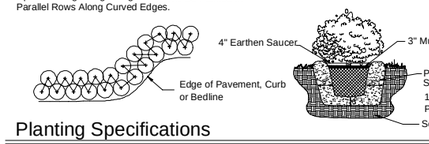
Tree Stakes are to be removed between 6-12 months by the Owner.



Shrub & Groundcover Planting Detail

NTS

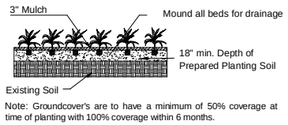
Note: All Shrubs And Groundcovers Shall Be Triangular Spaced Along Straight Edges And Will Be Planted In Parallel Rows Along Curved Edges.



Groundcover & Annual Detail

NOTE: Annuals Are To Be Planted As Per Groundcover Detail Excluding Mulch.

NTS



Note: Groundcover's are to have a minimum of 50% coverage at time of planting with 100% coverage within 6 months.

Notes

All Plants shall be Florida No.1 or better.

Contractor Shall be familiar w/ the Landscape code and shall comply with all of its applicable requirements.

Contractor shall verify all quantities indicated at time of bid. Contractor shall provide unit prices at time of bid.

All contractors working on the project shall be licensed and fully insured as required.

Tree and palm staking shall be removed between 6 and 12 months after planting.

Planting Specifications

QUALITY: All plants shall be Florida No.1 or better as given in Grades & Standards for Nursery Plants, Parts I and II, latest edition published by the Florida Department of Consumer Services.

RESEARCH : Contractor shall research plans and site to determine present location of utilities and obstructions before commencing work. Contractor shall ensure that before he commences work that all necessary permits have been obtained.

The contractor shall personally examine the project site and fully acquaint himself with all of the existing conditions in order that no misunderstanding may occur.

No Additional compensation will be granted, after bid has been let for any hardships the contractor may encounter in the performance of his duty. Any discrepancies or errors not addressed at the time of bid.

DRAWINGS : Drawings are part of this contract. Any discrepancies between the drawings and specifications shall be brought to the attention of the owner at time of bid.

SCOPE : Under this contract, the work consists of furnishing all labor, material, equipment, transportation, etc., to complete all landscaping work as shown on the Drawings, as included in the Plant List and as herein specified. Work shall include all construction and maintenance/watering of all planting areas of this Contract until accepted by the Owner.

The contractor shall be responsible for all planting/ maintenance of plants until acceptance by Owner. Contractor shall protect all existing structure, plants etc., from damage during the construction process.

All damage shall be repaired at the contractors expense

WARRANTY: All trees shall be warrantied for a period of 1 year. All shrubs and groundcovers shall be warrantied for a period of 90 days, and sod shall be warrantied for a period of 30 days. Warranty begins at time of acceptance. All warranties shall be provided to the owner.

REPLACEMENT: All plant replacements shall be done with the same size and species of plant that was specified.

SAMPLES: Samples of any landscape material may be required for approval on the site or as otherwise determined by the Owner. Upon approval of samples (i.e. mulch, planting soil, plant varieties, etc.) by the Owner, delivery of material may begin. Approved samples shall be stored on the site and protected until furnishing of materials is completed. Plant samples be planted in permanent positions, but labeled as samples.

SUBSTITUTIONS : Any substitutions made for any reason must be approved by the owner.

WATER : It is the contractors responsibility to obtain and adequately water the plants during the duration of the installation phase. All plants shall be freshly dug,healthy and be well branched, free form disease and insects.

CONTAINER GROWN MATERIAL : All container grown materials shall be healthy vigorous, well rooted plants, and established in the container so that the root mass will retain its shape and hold together when removed from the container.

PALMS : Only a minimum number of fronds shall be removed from the crown of palm trees to facilitate moving and handling. Cabbage palm heads shall be tied with a burlap strip per the following procedure: The first (inside) row of fronds contiguous to bud shall be removed. The next 3-4 rows shall be tied to bud for support. The remaining (lower) fronds shall be removed. Tied fronds and bud tip shall not be clipped. Burlap strip shall be left in place until the tree is well established.

PALMS : Clear trunk (c.t.) shall be measured from the ground at time of installation to the point where the mature aged trunk joins the immature green portion of the tree. Caliper shall be measured at breast height. Overall height (OA) shall be measured from the ground at the time of installation to a point one-quarter the length of the unopened bud below the bud tip.

SHADE TREES : Height shall be measured from the ground to the avg. height of canopy. Spread shall be measured to the average outer edge. Single trunk trees shall be free from low-crotches.

SHRUBS: Height shall be measured from the ground to the average point where mature plant growth stops. Spread shall be measured to the end of branching equally across the shrub mass. Measurements are not to include any terminal growth.

SOD: Sod shall be measured on the basis of square footage. Contractor shall be responsible for coverage of the square footage shown on the plans.

SOD: Time delivery so that sod will be placed within 24 hours after.

MULCH: Apply 3" NON-CYPRESS mulch to all planting areas. Keep mulch from piling up along the base of the tree and shrubs. Mulch to be measured after compaction.

FINE GRADING
The landscape contractor shall be responsible for fine grading of the site. This means that the site shall be brought within 1" of final grade so that the landscape contractor will be able to perform final grading. All landscape areas, sod areas, are to be fine graded.

PLANT LAYOUT: All bed areas shall have planting laid out prior to planting.
The Landscape Architect shall review all layout prior to planting. If the bed and shrub layout is not inspected prior to planting, the Landscape Architect reserves the right to relocate the plants.

SOIL

Planting beds shall contain good soil, complete with organic sand mix. There shall be no construction debris, rock larger than 1" within bed areas. Soil shall be dark gray-brown in organic color and shall have good drainage characteristics.
Soil within planting beds shall not be compacted.
All compacted sub-base/ shell is to be removed from all landscape areas.

BACKFILL/SOIL MIX	ANNUALS
50% decomposed organic matter (muck)	100% Potting Soil
50% existing soil	
pH: 5.5 - 7.0	

FERTILIZER : Two fertilizers shall be used in all types of plantings except palms. Granular fertilizer shall be uniform in composition, dry and free flowing.
This fertilizer shall be 6-6-6 Nitrogen-Phosphorous-Potassium. Tablet Fertilizer (Agriform or equal) in 21 gr size, shall meet the following requirements: 20% Nitrogen, 10% Phosphorous, 10% Potassium.
The two fertilizers will be applied at the following rates:

1. PLANT SIZE — 6-6-6 "AGRIFORM" TABLET (21 GRAM)

1 gal.	1/4 lb.	1
3 gal.	1/3 lb.	2
7-15 gal.	1/2 lb.	4
1"-6" caliper	2 lbs./1" cal.	2/1" caliper
6" and larger	3 lbs./1" cal.	2/1" caliper

2. Magnesium sulfate or "Palm Special" will be applied to all palms at installation at a rate of 1/2 lb. per inch of trunk caliper.

PRUNING: Each plant shall be pruned to complement the natural character of the tree. All dead and brown fronds, leaves, branches shall be removed.

TREE GUYING AND BRACING : Firmly stake or guy all trees in accordance with the plans and planting details immediately after planting to prevent wind damage.

WEED CONTROL: All landscape areas shall be free of nut grass, torpedo grass, and other noxious weeds.

PLANT MAINTENANCE: Contractor shall maintain all plants until final acceptance by owner.

CLEAN-UP: Contractor shall clean site area every day. The site shall be devoid of all rubbish, landscape debris, containers.

Contractor shall verify that he has the most up to date plans, and that they have been approved and accepted by the Owner before commencing construction.

UTILITIES CONFLICT NOTE:

Landscape, Lighting & Irrigation shall not conflict with and shall maintain a minimum of 6 feet (10 feet preferred) separation from existing and proposed water, wastewater, and drainage.

Trees shall not be placed on the bottom of retention areas and swales centerlines.

Refer to for Fire Hydrant Clear Zone Detail.

TO BE CONTACTED PRIOR TO ANY TYPE OF EXCAVATION WORK

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law
www.callsunshine.com

LANDSCAPE NOTES:

FDOT Type D or F curb shall be provided along the perimeter of all landscaped, open space, drainage and grassed areas adjacent to paved vehicular use areas, except where wheel stops

Safe sight triangles shall be maintained clear of vegetation to provide unobstructed visibility between 30" and 8' above crown of road.

Light poles, fire hydrants, electrical/mechanical equipment, signs, drainage structures, etc. shall not interfere with landscaping in terminal islands, parking islands, medians, buffers or other landscaped areas.

Landscape shall not be placed around structures in a manner so as to impede accessibility for fire rescue operations..

All new landscape areas shall be provided with 100 % automatic irrigation coverage.
A Functioning rain sensor/shut-off device shall be required on all irrigation systems.

Mulch all plant beds as specified in details using hardwood, non-cypress to 3" depth.

The soil utilized within the parking island areas shall have the lime rock excavated to a depth of 30" and backfilled with suitable planting soil.

FOR ALL TREE PLANTINGS :
Synthetic burlap ball covering materials shall be completely remover.
Wire baskets shall be cut off to a depth of 1/2 (half) the depth f the root ball.
Burlap coverings shall be removed to a depth of 1/3 (third) of the root ball.

Any tree support materials shall be removed from each tree once it is established.

All Canopy trees shall be planted no closer than 10' to any underground utilities. Root Barriers shall be used where applicable (refer to root barrier notes & details)

Root Barrier to be installed shall be a min 36" depth are provided.

Install as per Manufacture specs:
Root Solutions (800)554-0914
Biobarrier (800)257-6687 Or Equal

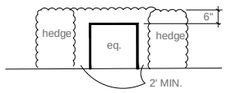
If any planted Trees/Palms are adjacent to exiting overhead utility lines, then principles of FPL "Plant the Right Tree in the Right Place" shall be adhered to. Alteration of proposed material shall be reviewed by Project LA for approval & notification to City.

*NOTE: ALL SOD TO BE ST. AUGUSTINE , EXCEPT FOR BOTTOM OF DRY RETENTION PONDS WHICH SHALL BE BAHIA SOD. ESTIMATED QUANTITIES SHALL BE DETERMINED AT TIME OF PERMITTING.

UTILITY SCREENING NOTE:
MECHANICAL & SERVICE EQUIPMENT SCREENING DETAIL

All air conditioners, pumps, transformers, back-flow preventers, and other site utilities shall receive a landscape hedge screen of plant material as required by Code. All hedges shall be maintained 6" above equipment.

provide screening on 3 sides as applicable



12 MONTH TREE & PALM IRRIGATION SCHEDULE
(including al relocates & in temporary palm holding area.)

All trees and Palms shall have one bubbler each, placed 4-way between edge of trunk and root ball.

All trees and Palms shall receive adequate water until established.
Recommended watering schedule as below:

For First 30 days = 7 days per week apply 5 gallons per minute for 10 minutes for each plant.

For next 60 days = 3 times per week apply 5 gallons per minute for 10 minutes for each plant.

For remaining 9 months = 2 times per week apply 5 gallons per minute for 10 minutes for each plant.

Contractor shall monitor & adjust accordingly dependant on outside factors (ie extended dry or wet periods).

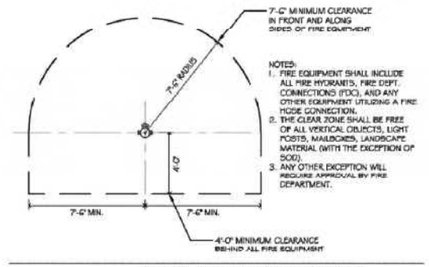


Figure 3. Fire Hydrant Separation Detail

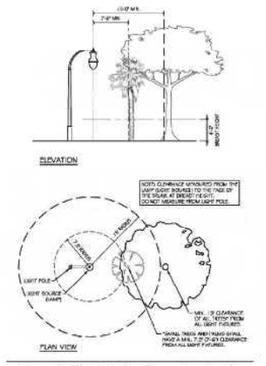


Figure 2. Site Lighting Separation Details

PLANT SCHEDULE OVERALL

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CATEGORY	NATIVE	CAT SF	
A- SHADE TREE								TOTAL NEW SF CANOPY
AR	4	Acer rubrum	Red Maple	12` HT X 5` SPR MIN; 2" DBH, FULL CANOPY	CAT 1	NATIVE	300 SF	1200
AR-E	2	Acer rubrum	Red Maple	Existing	CAT 1	NATIVE	300 SF ex.	
BS	4	Bursera simaruba	Gumbo Limbo	15` HT X 8` SPR MIN, 3.5" DBH MIN	CAT 1	NATIVE	300 SF	1200
CE	18	Conocarpus erectus	Buttonwood	12` HT X 5` SPR MIN; 2" DBH, FULL CANOPY	CAT 1	NATIVE	300 SF	5400
FA-MIT	1	Ficus aurea	Strangler Fig	15` HT X 8` SPR MIN, 3.5" DBH MIN	CAT 1	NATIVE	300 SF	300
FB-E	1	Ficus benghalensis	Indian Banyan	Existing	CAT 1	NATIVE	300 SF ex.	
QL-E	13	Quercus laurifolia	Laurel Oak	Existing	CAT 1	NATIVE	300 SF ex.	
QV	31	Quercus virginiana	Southern Live Oak	15` HT X 8` SPR MIN, 3.5" DBH MIN	CAT 1	NATIVE	300 SF	9300
QV-MIT	19	Quercus virginiana	Southern Live Oak	15` HT X 8` SPR MIN, 3.5" DBH MIN	CAT 1	NATIVE	300 SF	5700
QV-E	15	Quercus virginiana	Southern Live Oak	Existing	CAT 1	NATIVE	300 SF ex.	
TA-MIT	6	Taxodium ascendens	Pond Cypress	12` HT X 5` SPR MIN; 2" DBH, FULL CANOPY	CAT 1	NATIVE	300 SF	2100
TD	12	Taxodium distichum	Bald Cypress	12` HT X 5` SPR MIN; 2" DBH, FULL CANOPY	CAT 1	NATIVE	300 SF	3600
TD-E	3	Taxodium distichum	Bald Cypress	EXISTING	CAT 1	NATIVE	300 SF ex.	
(50 CODES & 25 MIT)	129	SUBTOTAL:						28800 subtotal
B - INTERMEDIATE								
CO10	25	Chrysophyllum oliviforme	Satinleaf	10` HT X 4` SPR MIN, 2" DBH, FULL CANOPY TREE FORM	CAT 2	NATIVE	150 SF	3750
CR	6	Clusia rosea	Autograph Tree	10` HT X 4` SPR MIN, 2" DBH, FULL CANOPY TREE FORM	CAT 2	NATIVE	150 SF	900
CD	9	Coccoloba diversifolia	Pigeon Plum	10` HT X 4` SPR MIN, 2" DBH, FULL CANOPY TREE FORM	CAT 2	NATIVE	150 SF	1350
CS10	6	Cordia sebestena	Orange Geiger Tree	10` HT X 4` SPR MIN, 2" DBH, FULL CANOPY TREE FORM	CAT 2	NATIVE	150 SF	900
ED	9	Elaeocarpus decipiens	Japanese Blueberry Tree	10` HT X 4` SPR MIN, 2" DBH, FULL CANOPY TREE FORM	CAT 2	NON-NATIVE	150 SF	1350
LS	9	Lagerstroemia speciosa	Queen`s Crape Myrtle	10` HT X 4` SPR MIN, 2" DBH, FULL CANOPY TREE FORM	CAT 2	NON-NATIVE	150 SF	1350
(64 CODES)	64	SUBTOTAL:						9600 subtotal
C - SMALL TREE								
CES	1	Conocarpus erectus `Sericeus`	Silver Buttonwood	10` HT X 4` SPR, 1.5\" @ 3`, 3` CT	CAT 3	NATIVE	100 SF	100
EF	13	Eugenia foetida	Spanish Stopper	10` HT X 4` SPR MIN, 2" DBH, FULL CANOPY TREE FORM	CAT 3	NATIVE	100 SF	1300
JAT	9	Jatropha integerrima	Spicy Jatropha	8` HT X 4` SPR, STD	CAT 3	Non-Native	100 SF	900
LI	6	Lagerstroemia x `Muskogee`	Crape Myrtle	10` HT X 4` SPR MIN, 2" DBH, FULL CANOPY TREE FORM	CAT 3	NON-NATIVE	100 SF	600
MF	4	Myrcianthes fragrans	Simpson's Stopper	8` HT X 4` SPR MIN, 1.5" CAL.	CAT 3	NATIVE	100 SF	400
(6 CODES & 1 FAQ0?)**	33	SUBTOTAL:						3300 subtotal
D - PALMS								
PD	2	Phoenix dactylifera `Medjool`	Date Palm	12` GW. MIN. * large palm counts as 1 tree (cat 1)	CAT 4	NON-NATIVE	100 SF	200
PHO-T	1	Phoenix roebelenii	Pygmy Date Palm	Transplanted	CAT 4	NON-NATIVE	50 SF tran.	
RE	6	Roystonea elata	Florida Royal Palm	12` GW. MIN. * large palm counts as 1 tree (cat 1)	CAT 4	NATIVE	100 SF	600
SP-MIT	5	Sabal palmetto	Cabbage Palmetto	12` - 24` CT; STG HTS IN GROUPINGS, SEE PLAN	CAT 4	NATIVE	100 SF	500
SP	30	Sabal palmetto	Cabbage Palmetto	12` - 24` CT; STG HTS IN GROUPINGS, SEE PLAN	CAT 4	NATIVE	100 SF	3000
SP-T	5	Sabal palmetto	Cabbage Palmetto	Transplanted	CAT 4	NATIVE	100 SF tran.	
VM-T	12	Veitchia merrillii	Christmas Palm	Transplanted	CAT 4	NON-NATIVE	100 SF tran.	
	61	SUBTOTAL:						4300 subtotal
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	NATIVE		TOTAL NEW CANOPY = 46,000 SF (inc existing or transplanted sf)
SHRUBS								
AEC	23	Aechmea blanchetiana `Orangeade`	Orangeade Bromeliad	24" X 24"	30" O.C.	NON-NATIVE		
CHR	423	Chrysobalanus icaco `Red Tip`	Red Tip Cocoplum	24" HT MIN @ INSTALL, FULL	PLANT SOLID	NATIVE		
CLU	253	Clusia guttifera	Small Leaf Clusia	30" HT MIN @ INSTALL, FULL TO BASE	30" O.C.	Non-Native		
CLU6	86	Clusia guttifera	Small Leaf Clusia	5`-6` HT AT INSTALL	PLANT SOLID	NON-NATIVE		
CON	90	Conocarpus erectus	Buttonwood	240" min @ install	PLANT SOLID	Native		
CR	14	Cordyline terminalis `Auntie Lou`	Auntie Lou Ti Plant	7 GAL MIN, 3 PPP, FULL	AS SHOWN	NON-NATIVE		
JA	4	Jatropha integerrima	Spicy Jatropha	4`oa, multi	AS SHOWN	Non-Native		
MYR	152	Myrcianthes fragrans	Simpson's Stopper	30" HT MIN @ INSTALL, FULL TO BASE	PLANT SOLID	NATIVE		
PRC	51	Philodendron x `Rojo Congo`	Rojo Congo Philodendron	24" HT MIN @ INSTALL, FULL	30" O.C.	NON-NATIVE		
POD	188	Podocarpus macrophyllus	Podocarpus	30" HT MIN @ INSTALL, FULL TO BASE	PLANT SOLID	NON-NATIVE		
PDD	60	Podocarpus macrophyllus `Dwarf Pringles`	Dwarf Podocarpus	24" HT MIN @ INSTALL, FULL	24" OC	NON-NATIVE		
PSY	53	Psychotria nervosa	Wild Coffee	24" HT MIN @ INSTALL, FULL	24" OC	Native		
SER	6	Serenoa repens	Saw Palmetto	20\"x20\"	AS SHOWN	NATIVE		
THR	80	Thryallis glauca	Thryallis	24" HT MIN @ INSTALL, FULL	24" OC	NON-NATIVE		
	1,483	SUBTOTAL:						
SHRUB AREAS								
BOU	78	Bougainvillea x `Raspberry Ice`	Bougainvillea bush	18" HT MIN @ INSTALL, FULL	24" OC	NON-NATIVE		
DIA	205	Dianella tasmanica	Flax Lily	15\"x15\"	18" OC	NON-NATIVE		
FIC	424	Ficus microcarpa `Green Island`	Green Island Ficus	18" HT MIN @ INSTALL, FULL	18" OC	NON-NATIVE		
HAM	337	Hamelia patens	Firebush	24" HT MIN @ INSTALL, FULL	24" OC	NATIVE		
ILX	570	Ilex vomitoria `Schillings Dwarf`	Dwarf Schillings Holly `Hedge`	15\"x15\"	18" OC	NATIVE		
IXO	347	Ixora taiwanensis	Dwf Ixora Petite Red	18" HT MIN @ INSTALL, FULL	18" OC	NON-NATIVE		
JAS	305	Jasminum multiflorum	Downey Jasmine	18" HT MIN @ INSTALL, FULL	24" OC	NON-NATIVE		
MUH	162	Muhlenbergia capillaris	Pink Muhly Grass	24" HT MIN @ INSTALL, FULL	24" OC	NATIVE		
NEP	171	Nephrolepis exaltata	Boston Fern	15\"x15\"	18\" O.C.	NATIVE		
PHX	92	Philodendron xanadu	Xanadu Philodendron	18" HT MIN @ INSTALL, FULL	24" OC	NON-NATIVE		
RHA	128	Rhaphiolepis indica `Alba`	White Indian Hawthorn	15\"x15\"	18" OC	NON-NATIVE		
TRI	183	Schefflera arboricola `Trinette`	Schefflera trinette	18" HT MIN @ INSTALL, FULL	18" OC	NON-NATIVE		
SPA	160	Spartina bakeri	Sand Cord Grass	18" HT MIN @ INSTALL, FULL	24" OC	NATIVE		
DFK	302	Tripacum dactyloides	Dwarf Fakahatchee	24" HT MIN @ INSTALL, FULL	30" oc	NATIVE		
ZAM	235	Zamia floridana	Fl Coontie	15\"x15\"	18" OC	NATIVE		
	3,699	SUBTOTAL:						
GROUND COVERS								
ASP	396	Asparagus densiflorus `Myers`	Myers Asparagus Fern	12"x12"	18\" O.C.	NON-NATIVE		
JUN	664	Juniperus horizontalis	Creeping Juniper	15\"x15\"	18\" O.C.	NON-NATIVE		
LIR	1,071	Liriope muscari `Evergreen Giant`	Evergreen Giant Border Grass	15\"x15\"	18\" O.C.	NON-NATIVE		
	2,131	SUBTOTAL:						
TURF								
SOD-B	8,081 sf	Paspalum notatum	Bahia Grass	final amount tbd in field				
SOD	33,640 sf	Stenotaphrum secundatum `Floritam`	Floritam St. Augustine Sod	final amount tbd in field				
	41,721 sf	SUBTOTAL:						

Finished grades of landscape areas. Finished grade of landscape areas shall be at or below the grade of adjacent VUA or public sidewalks, except for mounding or other surface aesthetics. Grade shall be designed to receive roof and surface runoff and to assist irrigation of plantings and then any overflow routed as necessary underground. Mounding or other surface aesthetics shall not inhibit or defeat intended rainwater capture, retention or percolation from a VUA.

Root barriers. A root barrier system shall be installed in situations where a tree or palm is planted within six (6) feet of underground utilities and hardscape as required by code, unless other special provisions have been designed to accommodate tree roots.

IRRIGATION NOTE: (Water source - new well / pump)
An automatic properly functioning underground irrigation system with a rain sensing cutoff device shall be in compliance with the SFWMD, Florida Building Code and city Building Code requirements. The rain sensing cutoff device shall be located and installed in such a manner that the building eaves, balconies and similar overhangs do not interfere with the operation of the device. The irrigation system shall be rust free & properly maintained in good working order and provide a minimum coverage of 100% with 50% overlap.

Adequate irrigation of all newly proposed landscaped areas shall be provided for the first full growing season and continue thereafter only as necessary to maintain required vegetation in good and healthy condition. Irrigation systems shall conform to following standards:
a. Irrigation systems shall be continuously maintained in working order and shall be designed so not to overlap water zones or to water impervious areas.
b. No irrigation system shall be installed or maintained abutting any public street which causes water from the system to spurt onto the roadway or to strike passing vehicular traffic.

FDOT LANDSCAPE PERMIT # 2024-L-491-00007

REVISION		DATE
1	FDOT comments	4/17/24
2	COA comments	5/16/24

Lynn M Bender — Digitally signed by Lynn M Bender Date: 2024.05.16 19:45:17 -04'00'

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Lake Worth, FL 33467
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FL-LA6666715

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CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY LA, ARCHITECT and/OR ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

COCONUT CREEK MAZDA
3757 CORAL TREE CIRCLE
COCONUT CREEK, FLORIDA 33073
FDOT - SR 834 & SIDEWALK EASEMENT
LANDSCAPE PLANT LIST, DETAILS & SPECIFICATIONS

LYNN M. BENDER
REGISTERED LANDSCAPE ARCHITECT
LARC0001667
LICENSED LANDSCAPE ARCHITECT
LYNN M. BENDER
5/16/24
STATE OF FLORIDA

PROJECT NO.	20-569
CADD I.D.	MAZDA LP
DRAWN BY :	LMB
CHECKED BY :	LMB
SCALE :	1" = 40'-0"
DATE :	01-21-2021

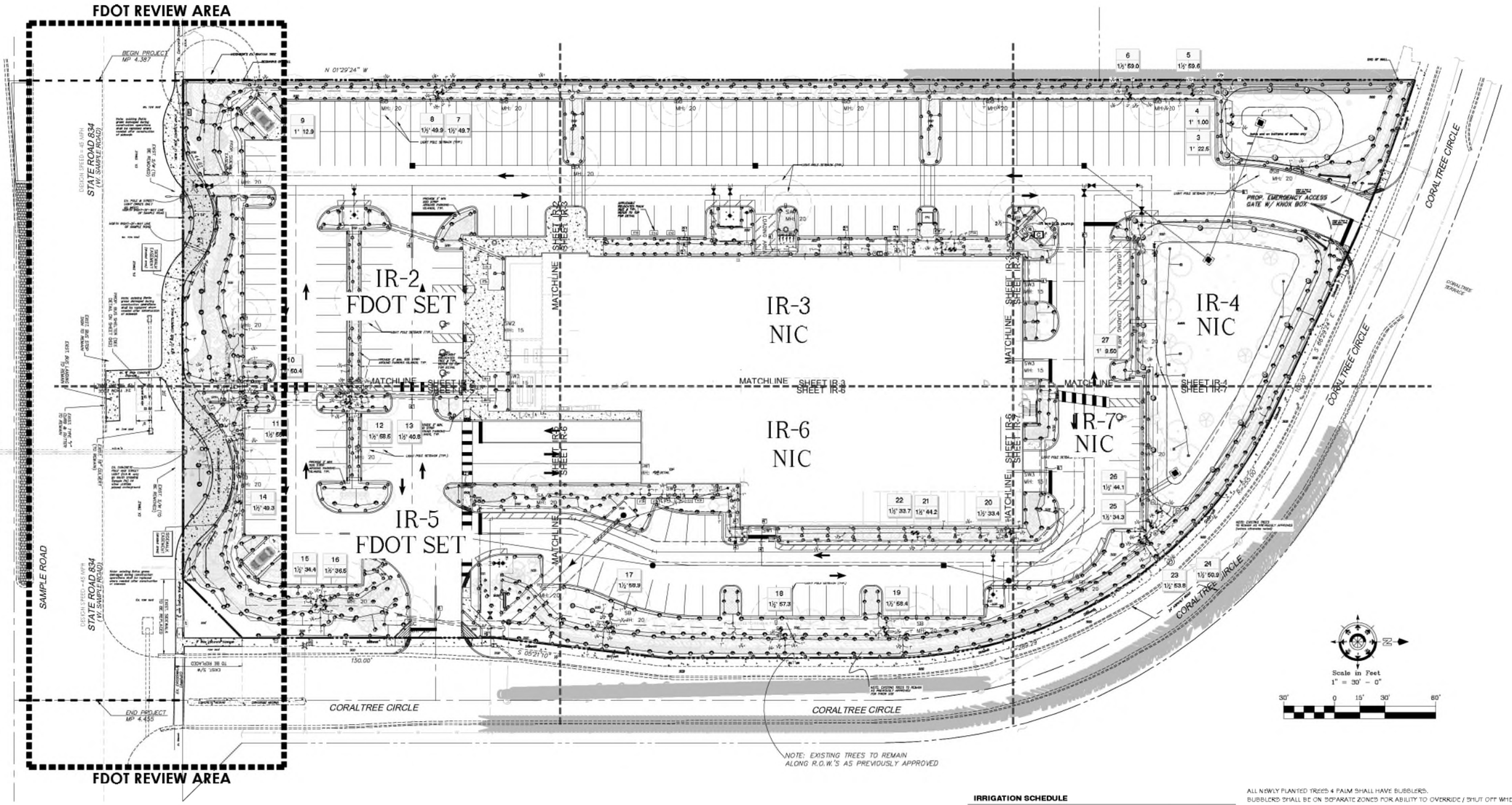
SHEET : LP8
MMOA Page 12 of 18
8 OF 8 SHEETS

LP8 LANDSCAPE PLANT LIST, DETAILS & SPECIFICATIONS

The Client agrees to indemnify and hold harmless LBLA INC. from any liability arising from acts or omissions in the performance of said services during construction by the Client, and his/her agents, employees, or subcontractors. where LBLA INC. does not provide landscape architectural services during construction (as the term is generally understood), including on-site monitoring, site visits, shop drawing review, design clarification, etc.

FDOT SET : COVER, LP1, LP2, LP5 & LP8 ONLY

Docusign Envelope ID: 016F9749-4BF3-4EF1-908C-24D56AFB1FC2



Scale in Feet
1" = 30' - 0"
30' 0 15' 30' 60'

NOTE TO CONTRACTOR:
THE FOLLOWING IRRIGATION INSPECTIONS ARE REQUIRED BY CITY:
- ROUGH
- SLEEVES
- MAINLINE PRESSURE TEST
- FINAL

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	RADIUS
	Hunter PROS-04 5' strip spray	35	LCS	30	5'x15'
	Hunter PROS-04 5' strip spray	37	RCS	30	5'x15'
	Hunter PROS-04 5' strip spray	168	SST	30	5'x30'
	Hunter PROS-04 8' radius	179	180	30	8'
	Hunter PROS-04 8' radius	21	90	30	8'
	Hunter PROS-04 10' radius	2	360	30	10'
	Hunter PROS-04 10' radius	34	180	30	10'
	Hunter PROS-04 10' radius	23	90	30	10'
	Hunter PROS-04 12' radius	2	360	30	12'
	Hunter PROS-04 12' radius	42	180	30	12'
	Hunter PROS-04 12' radius	3	90	30	12'
	Hunter PROS-04 15' radius	19	180	30	15'
	Hunter PROS-04 15' radius	8	90	30	15'
	Hunter PROS-12 5' strip spray	30	LCS	30	5'x15'
	Hunter PROS-12 5' strip spray	30	RCS	30	5'x15'
	Hunter PROS-12 5' strip spray	117	SST	30	5'x30'
	Hunter PROS-12 8' radius	62	180	30	8'
	Hunter PROS-12 8' radius	54	90	30	8'
	Hunter PROS-12 10' radius	2	360	30	10'
	Hunter PROS-12 10' radius	124	180	30	10'
	Hunter PROS-12 10' radius	23	90	30	10'
	Hunter PROS-12 12' radius	6	360	30	12'
	Hunter PROS-12 12' radius	52	180	30	12'
	Hunter PROS-12 12' radius	24	90	30	12'
	Hunter PROS-12 15' radius	1	360	30	15'
	Hunter PROS-12 15' radius	38	180	30	15'
	Hunter PROS-12 15' radius	15	90	30	15'
	Hunter PCB 50	21	360	30	3'
	TOTAL NO. OF HEADS	1,192			

ALL NEWLY PLANTED TREES & PALM SHALL HAVE BUBBLERS.
BUBBLERS SHALL BE ON SEPARATE ZONES FOR ABILITY TO OVERRIDE / SHUT OFF WHEN NOT NEEDED.

SYMBOL	MANUFACTURER/MODEL	QTY	PSI	RADIUS
	Hunter PGP-ADJ-B	7	45	31'
	Hunter PGP-ADJ-B	17	45	39'
	Hunter PGP-ADJ-LA	3	40	24'

SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter PGV-1010 1"	4
	Hunter PGV-151 Globe 1-1/2"	23
	Motor-Norca 514TX 2 1/2"	3
	Hunter IC-0600-PL	1
	Hunter RAIN-CLIK	1
	Pump 5 HP - SURFACE MOUNT 4" WELL - 120 GPM	1
	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	12,024 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/4"	1,336 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/2"	301.2 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 2"	82.7 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 2 1/2"	28.8 l.f.
	Irrigation Mainline: PVC Class 200 SDR 21 2 1/2"	2,090 l.f.
	Pipe Sleeve: PVC Schedule 40 2"	122.5 l.f.
	Pipe Sleeve: PVC Schedule 40 4"	217.7 l.f.
	Pipe Sleeve: PVC Schedule 40 6"	183.5 l.f.

Valve Detail

IRRIGATION SYSTEM SHALL BE RUST-FREE; CONTRACTOR SHALL COORDINATE WITH OWNER FOR INSTALLATION OF A RUST INHIBITOR SYSTEM IF APPLICABLE TO THIS SITE. OWNERS TO SECURE A COMPANY TO PROVIDE ON-GOING SERVICES TO PROPERLY MAINTAIN THE RUST INHIBITOR SYSTEM.

FDOT LANDSCAPE PERMIT # 2024-L-491-00007

TO BE CONTACTED PRIOR TO ANY TYPE OF EXCAVATION WORK
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www.callsunshine.com

IR-1
1"=30'-0"
OVERALL IRRIGATION PLAN - KEY

FDOT SET : IR-1, IR-2, IR-5 & IR-8 ONLY

REVISION		DATE
1	FDOT comments	4/17/24
2	COA comments	5/16/24

Lynn M Bender — Digitally signed by Lynn M Bender, Date: 2024.05.16 19:45:38 -04'00'

LBLA, Inc.
Landscape Architecture
5610 Adair Way
Lake Worth, FL 33467
Phone: 561-644-3237
LbenderLarch@gmail.com
FL-LA6666715

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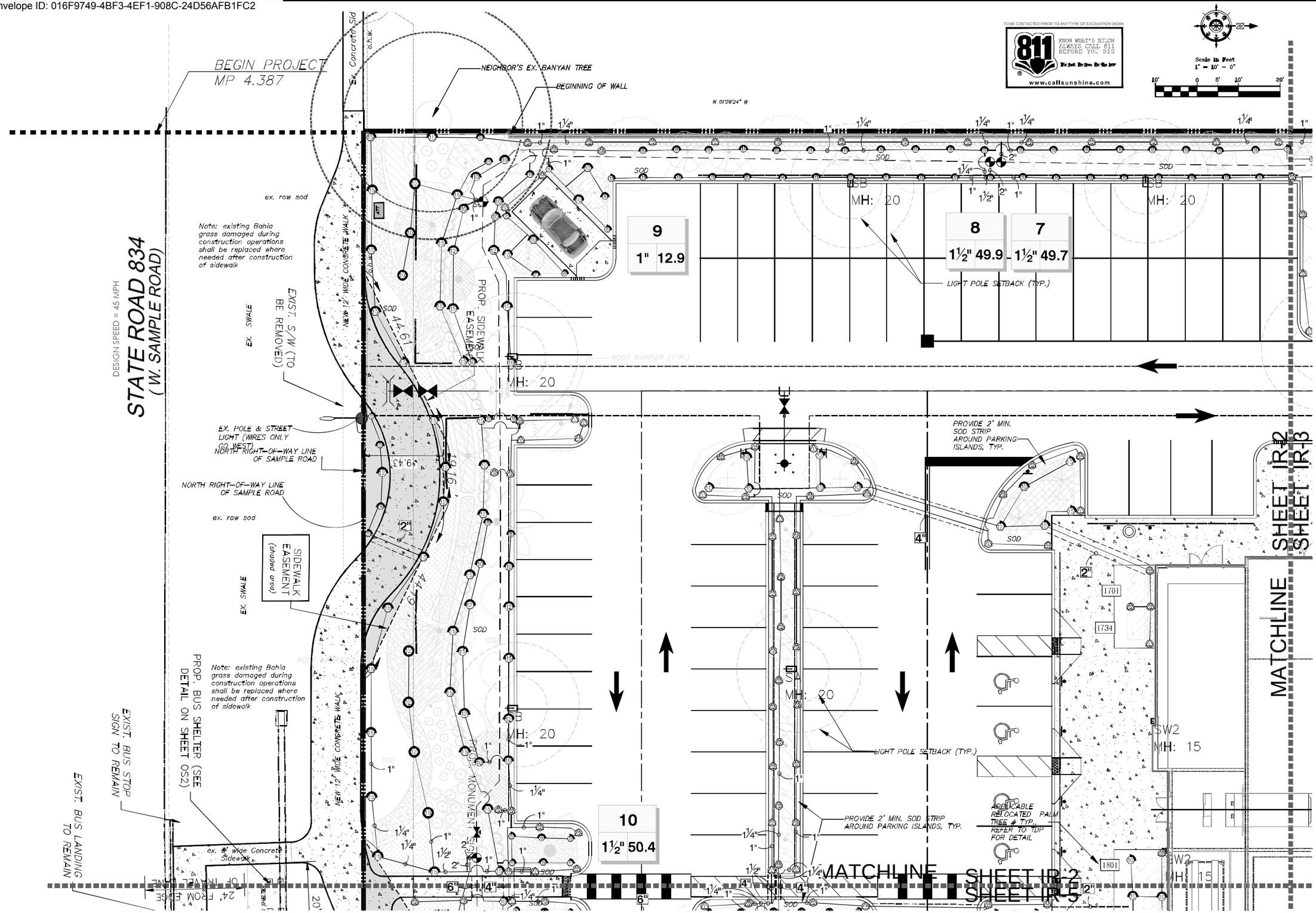
CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY LA ARCHITECT &/OR ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

COCONUT CREEK MAZDA
3757 CORAL TREE CIRCLE
COCONUT CREEK, FLORIDA 33073
FDOT - SR 834 & SIDEWALK EASEMENT
OVERALL IRRIGATION PLAN

LYNN M BENDER REGISTERED LANDSCAPE ARCHITECT LICENSE NO. 6666715 STATE OF FLORIDA
5/16/24

PROJECT NO.	CADD I.D.
20-569	MAZDA LP
DRAWN BY :	LMB
CHECKED BY :	LMB
SCALE :	1" = 30'-0"
DATE :	08-04-2021
SHEET :	IR-1

Docusign Envelope ID: 016F9749-4BF3-4EF1-908C-24D56AFB1FC2



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REVISION		DATE
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2	COA comments	5/16/24

Lynn M Bender
Originally signed by Lynn M Bender
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COCONUT CREEK MAZDA
3757 CORAL TREE CIRCLE
COCONUT CREEK, FLORIDA 33073
FDOT - SR 834 & SIDEWALK EASEMENT
IRRIGATION PLAN

STATE OF FLORIDA LANDSCAPE ARCHITECT LYNN M. BENDER LICENSE NO. LA6666715 5/16/24

PROJECT NO.	CADD I.D.
20-569	MAZDA LP
DRAWN BY :	LMB
CHECKED BY :	LMB
SCALE :	1" = 10'-0"
DATE :	08-04-2021

SHEET : IR-2
2 OF 8 SHEETS

FDOT LANDSCAPE PERMIT # 2024-L-491-00007

IR-2 1"=10'-0" IRRIGATION PLAN

FDOT SET : IR-1, IR-2, IR-5 & IR-8 ONLY

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MATCHLINE SHEET IR-5

MATCHLINE SHEET IR-6

SAMPLE ROAD

STATE ROAD 834 (W. SAMPLE ROAD)

DESIGN SPEED = 45 MPH

CORALTREE CIRCLE

EXIST. TYPE "F" CURB & GUTTER TO REMAIN

EXIST. 18" CULVERT (TO REMAIN)

o.h.w.'s

ex. row sod

EX. CONCRETE POLE AND STREET LIGHT (O.H.W. only go south crossing Sample Rd) All other utilities placed underground

EX. SWALE

EXIST. S/W (TO BE REMOVED)

SIDEWALK EASEMENT (shaded area)

Note: existing Bahia grass damaged during construction operations shall be replaced where needed after construction of sidewalk

Ex. row sod

EXIST. SIDEWALK TO BE REPLACED

5' wide Concrete Sidewalk

sod

row sod

EX. CROSSWALK (Asphalt)

TO BE REPLACED EXIST. S/W

CONCRETE MEDIAN

CONCRETE MEDIAN

END PROJECT MP 4.455

NEW 12' WIDE CONCRETE WALK

11 1½" 55.1

12 1½" 58.5

13 1½" 40.8

14 1½" 49.3

15 1½" 34.4

16 1½" 36.5

PROVIDE 2' MIN. SOD STRIP AROUND PARKING ISLANDS, TYP.

LIGHT POLE SETBACK (TYP.)

SA MH: 20

SB MH: 20

SC MH: 20

SIGN

SOD

Sidewalk

160.00'

S 05°21'10" W

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Scale in Feet
1" = 10' - 0"
10' 0 5' 10' 20'

FDOT LANDSCAPE PERMIT # 2024-L-491-00007

IR-5 1"=10'-0" IRRIGATION PLAN

FDOT SET : IR-1, IR-2, IR-5 & IR-8 ONLY

REVISION		DATE
1	FDOT comments	4/17/24
2	COA comments	5/16/24

Lynn M Bender — Digitally signed by Lynn M Bender Date: 2024.05.16 19:46:17 -04'00'

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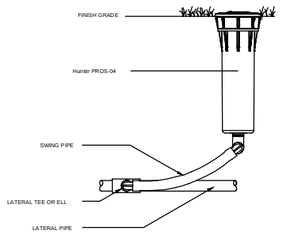
COCONUT CREEK MAZDA
3757 CORAL TREE CIRCLE
COCONUT CREEK, FLORIDA 33073
FDOT - SR 834 & SIDEWALK EASEMENT
IRRIGATION PLAN

Licensed Landscape Architect Lynn M Bender State of Florida
5/16/24
seal

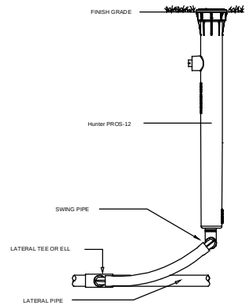
PROJECT NO. 20-569	CADD I.D. MAZDA LP
DRAWN BY : LMB	
CHECKED BY : LMB	
SCALE : 1" = 10'-0"	
DATE : 08-04-2021	

SHEET : IR-5

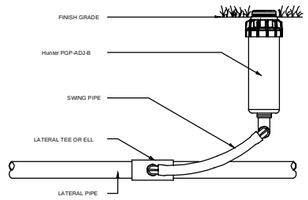
Docusign Envelope ID: 016F9749-4BF3-4EF1-908C-24D56AFB1FC2



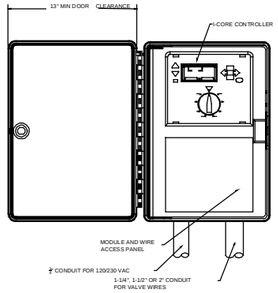
POP-UP SPRAY SPRINKLER



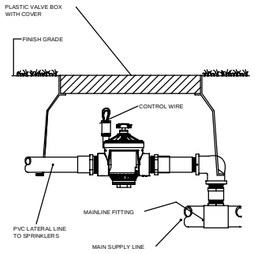
POP-UP SPRAY SPRINKLER



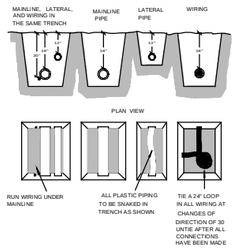
ROTOR



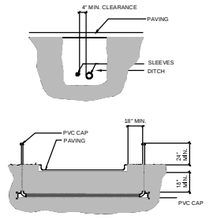
HUNTER I-CORE CONTROLLER



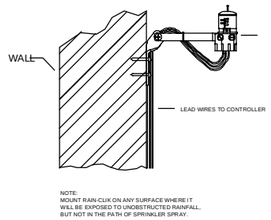
REMOTE CONTROL VALVE



PIPE AND WIRE TRENCH



IRRIGATION SLEEVING



HUNTER RAIN-CLIK RAIN SENSOR

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CRITICAL ANALYSIS

Generated:

Pump 5 HP - SURFACE MOUNT
Water Source Information: 4" WELL - 120 GPM

FLOW AVAILABLE	
Pump:	
Flow Available:	120.00 gpm
PRESSURE AVAILABLE	
Static Pressure at Pump:	70.00 PSI
Elevation Change:	5.00 ft
Service Line Size:	3"
Length of Service Line:	20 ft
Pressure Available:	68.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	59.56 gpm
Flow Available at Pump:	120.00 gpm
Residual Flow Available:	60.44 gpm
Pressure Req. at Critical Station:	52.92 psi
Loss for Fittings:	0.10 psi
Loss for Main Line:	1.02 psi
Loss for Pump to Valve Elevation:	0.00 psi
Loss for Backflow:	0.00 psi
Loss for Pump:	1.55 psi
Critical Station Pressure at Pump:	55.59 psi
Pressure Available:	68.00 psi
Residual Pressure Available:	12.41 psi

NOTE TO CONTRACTOR:
THE FOLLOWING IRRIGATION INSPECTIONS ARE REQUIRED BY CITY:
- ROUGH
- SLEEVES
- MAINLINE PRESSURE TEST
- FINAL

IRRIGATION SYSTEM SHALL BE RUST-FREE; CONTRACTOR SHALL COORDINATE WITH OWNER FOR INSTALLATION OF A RUST INHIBITOR SYSTEM IF APPLICABLE TO THIS SITE. OWNER'S TO SECURE A COMPANY TO PROVIDE ON-GOING SERVICES TO PROPERLY MAINTAIN THE RUST INHIBITOR SYSTEM.

IRRIGATION SPECIFICATIONS

1. IRRIGATION POINT OF CONNECTION SHALL BE CAPABLE OF DELIVERING A VARIABLE FLOW RATE OF 60 GPM AT A CONSTANT PRESSURE OF 70 PSI DOWNSTREAM OF BACKFLOW PREVENTION DEVICE.POINT OF CONNECTION SHELL BE ABLE TO MAINTAIN THE MAXIMUM FLOW RATE AND PRESSURE FOR THE DURATION OF AN IRRIGATION CYCLE. CONTRACTOR SHALL VERIFY THESE PARAMETERS PRIOR TO CONSTRUCTION, AND NOTIFY OWNER'S REPRESENTATIVE AND IRRIGATION CONSULTANT IF THEY CANNOT BE MET.
2. IF THE POINT OF CONNECTION EXCEEDS THE ABOVE PRESSURE REQUIREMENTS, A PRESSURE REGULATOR SHALL BE INSTALLED AT THE OWNER'S EXPENSE. PRESSURE REGULATOR SHALL BE SET AT THE PRESSURE RECOMMENED ABOVE.
3. POWER FOR THE IRRIGATION CONTROLLER, PUMP AND OTHER ELECTRICAL COMPONENTS SHALL BE PROVIDED BY OTHER. CONTRACTOR SHALL VERIFY POWER AVAILABLE MEETS THS REQUIREMENTS OF THE COMPONENT'S MANUFACTURER. IF POWER AVAILABLE IS INADQUATE, CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
4. IRRIGATION SYSTEM IS DISPLAYED SCHEMATIC IN NATURE. MINOR FIELD ADJUSTMENTS MAY BE NECESSARY TO ACCOMMODATE FOR LANDSCAPING CHANGES, PLANTING BEDS OR OTHER OBSTRUCTIONS. THESE ADJUSTMENTS MAY BE MADE ONLY AFTER NOTIFYING THE OWNER'S REPRESENTATIVE.
5. SOME IRRIGATION COMPONENTS AND PIPING ARE SHOWN IN HARDSCAPE AREAS AND OUTSIDE OF PROPERTY LINES TO IMPROVE ON THE READABILITY OF THE IRRIGATION PLAN. ALL COMPONENTS AND PIPING SHALL BE INSTALLED INSIDE OF THE PROPERTY LINES AND OUTSIDE OF HARDSCAPE AREAS.
6. MAINLINE, LATERALS AND CONTROL WIRES SHALL BE INSTALLED INSIDE THE SAME TRENCH WHENEVER POSSIBLE..
7. SYSTEM TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
8. CONTROLER SHALL BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS.
9. ALL CONTROLLER/VALVE WIRE SHALL BE #14 GAUGE. THE COMMON WIRE SHALL BE COLORED WHITE, WHILE THE STATION WIRES SHALL BE OF AT LEAST ONE COLOR OTHER THAN WHITE.
10. ALL FIELD WIRE ABOVE GRADE OR WITHIN STRUCTURE TO BE INSTALLED IN CONDUIT PER LOCAL CODE.
11. ALL UNDERGROUND SPLICES TO UTILIZE 3M DBY, OR KING WATER PROOF SPLICE KITS, DEPENDING ON NUMBER AND SIZE OF WIRES. ALL SPLICES SHALL BE MADE INSIDE A VALVE BOX.
12. DEPTH OF IRRIGATION PIPING;18" ON MAINLINE; 12" ON LATERALS.
13. SLEEVING UNDER PAVED AREAS SHALL BE INSTALLED AT A DEPTH OF 24".
14. ALL NEW TREES AND PALMS SHALL HAVE BUBBLERS

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	HEADS	PIPE	DESIGN PSI	FRICTION LOSS	VALVE LOSS	PSI	PSI @ POC	PRECIP
1	Hunter PGV-151 Globe	1-1/2"	Turf Spray	28.01	37	470.0	30	4.02	3	37.02	37.86	1.45 in/h
2	Hunter PGV-151 Globe	1-1/2"	Shrub Spray	42.31	71	656.2	30	3.51	3.23	36.74	38.46	1.62 in/h
3	Hunter PGV-101G	1"	Turf Rotor	22.50	9	232.4	45	1.17	4	50.17	50.96	0.77 in/h
4	Hunter PGV-101G	1"	Bubbler	1.00	2	46.6	30	0.01	1.1	31.11	31.51	1.7 in/h
5	Hunter PGV-151 Globe	1-1/2"	Shrub Spray	59.56	54	666.3	30	3.34	4.96	38.3	42.95	1.56 in/h
6	Hunter PGV-151 Globe	1-1/2"	Turf Spray	58.97	101	936.5	30	3.74	4.9	38.63	43.39	1.34 in/h
7	Hunter PGV-151 Globe	1-1/2"	Shrub Spray	49.72	46	575.4	30	3.02	3.97	37.0	41.19	1.33 in/h
8	Hunter PGV-151 Globe	1-1/2"	Turf Spray	49.85	81	732.6	30	3.22	3.99	37.21	41.42	1.39 in/h
9	Hunter PGV-101G	1"	Shrub Spray	12.90	8	92.3	30	0.21	1.73	31.93	32.52	1.03 in/h
10	Hunter PGV-151 Globe	1-1/2"	Shrub Spray	50.44	39	457.6	30	2.31	4.04	36.35	40.54	1.56 in/h
11	Hunter PGV-151 Globe	1-1/2"	Turf Spray	55.08	60	581.7	30	1.97	4.51	36.47	41.53	1.59 in/h
12	Hunter PGV-151 Globe	1-1/2"	Turf Spray	58.50	55	717.6	30	2.88	4.85	37.73	43.87	1.56 in/h
13	Hunter PGV-151 Globe	1-1/2"	Shrub Spray	40.75	54	635.3	30	3.09	3.08	36.17	39.35	1.53 in/h
14	Hunter PGV-151 Globe	1-1/2"	Shrub Spray	49.31	41	440.2	30	2.01	3.93	35.94	40.03	1.43 in/h
15	Hunter PGV-151 Globe	1-1/2"	Shrub Spray	34.43	36	360.9	30	0.76	3	33.75	35.9	1.4 in/h
16	Hunter PGV-151 Globe	1-1/2"	Turf Spray	36.50	38	404.2	30	1.13	3	34.13	36.53	1.32 in/h
17	Hunter PGV-151 Globe	1-1/2"	Turf Spray	58.90	48	593.0	30	1.52	4.89	36.4	42.08	1.55 in/h
18	Hunter PGV-151 Globe	1-1/2"	Shrub Spray	57.30	71	688.2	30	2.81	4.73	37.54	42.76	1.54 in/h
19	Hunter PGV-151 Globe	1-1/2"	Turf Spray	58.39	48	602.4	30	1.54	4.84	36.38	41.62	1.52 in/h
20	Hunter PGV-151 Globe	1-1/2"	Shrub Spray	33.37	38	379.6	30	1.9	3	34.9	36.8	1.85 in/h
21	Hunter PGV-151 Globe	1-1/2"	Turf Spray	44.24	53	624.1	30	4.98	3.42	38.41	41.84	1.54 in/h
22	Hunter PGV-151 Globe	1-1/2"	Shrub Spray	33.71	43	496.8	30	4.79	3	37.79	39.88	1.63 in/h
23	Hunter PGV-151 Globe	1-1/2"	Turf Spray	53.80	52	640.0	30	4.12	4.38	38.5	42.43	1.49 in/h
24	Hunter PGV-151 Globe	1-1/2"	Shrub Spray	50.91	56	550.6	30	4.23	4.09	38.33	41.84	1.26 in/h
25	Hunter PGV-151 Globe	1-1/2"	Shrub Spray	34.26	41	408.6	30	3.07	3	36.07	37.76	1.1 in/h
26	Hunter PGV-151 Globe	1-1/2"	Turf Rotor	44.10	18	474.1	45	4.51	3.41	52.92	55.59	0.9 in/h
27	Hunter PGV-101G	1"	Bubbler	9.50	19	308.9	30	0.36	1.9	32.26	32.71	1.7 in/h

FDOT LANDSCAPE PERMIT # 2024-L-491-00007

IR-8 IRRIGATION DETAILS & SPECIFICATIONS

FDOT SET : IR-1, IR-2, IR-5 & IR-8 ONLY

REVISION		DATE
1	FDOT comments	4/17/24
2	COA comments	5/16/24

Lynn M Bender
Digitally signed by Lynn M Bender
Date: 2024.05.16 19:46:34 -04'00'

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COCONUT CREEK MAZDA
3757 CORAL TREE CIRCLE
COCONUT CREEK, FLORIDA 33073
FDOT - SR 834 & SIDEWALK EASEMENT
IRRIGATION, DETAILS & SPECIFICATIONS

STATE OF FLORIDA
LANDSCAPE ARCHITECT
LYNN M. BENDER
LICENSE NUMBER LA6666715
5/16/24

PROJECT NO.	CADD I.D.
20-569	MAZDA LP
DRAWN BY :	LMB
CHECKED BY :	LMB
SCALE :	N.T.S
DATE :	08-04-2021
SHEET :	IR-DETAILS

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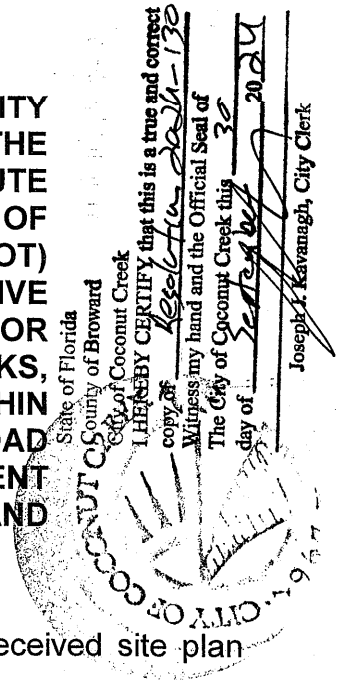
RESOLUTION NO. 2024-130

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF COCONUT CREEK, FLORIDA, AUTHORIZING THE CITY MANAGER, OR DESIGNEE, TO EXECUTE AMENDMENT NUMBER NINE (9) TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DISTRICT FOUR LANDSCAPE INCLUSIVE MAINTENANCE MEMORANDUM OF AGREEMENT FOR THE PURPOSE OF MAINTAINING SIDEWALKS, LANDSCAPING, AND OTHER IMPROVEMENTS WITHIN THE RIGHT-OF-WAY OF SAMPLE ROAD (STATE ROAD 834) RELATED TO THE MAZDA DEVELOPMENT PROJECT; PROVIDING FOR SEVERABILITY; AND PROVIDING AN EFFECTIVE DATE.



WHEREAS, on October 14, 2021, Pompano Autoplex, LLC received site plan approval from the City for the design and construction of the Mazda automobile dealership located at 4101 West Sample Road; and

WHEREAS, a portion of the Mazda Development Project improvements, including, but not limited to, sidewalks, landscaping, and a bus rider shelter, will be constructed within the Florida Department of Transportation (FDOT) property and/or right-of-way; and

WHEREAS, the City of Coconut Creek recognizes the need to amend an existing FDOT Landscape Inclusive Maintenance Memorandum of Agreement (MMOA), designating and setting forth maintenance responsibilities related to these improvements; and

WHEREAS, it shall be the responsibility of the City of Coconut Creek to maintain or coordinate the maintenance of the improvements after the project's completion; and

WHEREAS, said maintenance responsibilities will be reassigned to Pompano Autoplex, LLC by separate resolution and agreement.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF COCONUT CREEK, FLORIDA:

Docusign Envelope ID: 016F9749-4BF3-4EF1-908C-24D56AFB1FC2

Section 1: That the foregoing "WHEREAS" clauses are hereby ratified and confirmed as being true and correct and are hereby made a specific part of this resolution. All exhibits attached hereto are incorporated herein and made a specific part of this resolution.

Section 2: That the City Commission hereby accepts the future budgeting and funding resources projected to be necessary for maintenance contingency and supports the mobility project as it relates to the Mazda Development Project.

Section 3: That City Manager, or designee, is hereby authorized to execute Amendment Number Nine (9) to the FDOT District Four Landscape Inclusive Maintenance Memorandum of Agreement between FDOT and the City, designating maintenance responsibilities for the Sample Road right-of-way improvements related to the Mazda Development Project.

Section 4: That if any clause, section, other part or application of this resolution is held by any court of competent jurisdiction to be unconstitutional or invalid, in part or in application, it shall not affect the validity of the remaining portion or applications of this resolution.

Section 5: That this resolution shall be in full force and effect immediately upon its adoption.

Adopted this 26th **day of** September **, 2024.**

Sandra L. Welch, Mayor

Attest:

Joseph J. Kavanagh, City Clerk

Welch	Aye
Railey	Aye
Rydell	Aye
Brodie	Aye
Wasserman	Aye

Docusign Envelope ID: 1CD66425-BBB3-4A94-84CF-0E9FC84DCF54

SECTION: **86120000**
COUNTY: **BROWARD**
STATE RD: **810**
PERMIT: **2023-L-491-00007**

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

THIS AMENDMENT Number Ten (10) to the Agreement dated May 27, 2009, made and entered into this 31 day of January 2025 by and between the **DEPARTMENT OF TRANSPORTATION** hereinafter called the **DEPARTMENT** and the **CITY OF COCONUT CREEK**, a municipal subdivision of the State of Florida, hereinafter called the **AGENCY**.

W I T N E S S E T H

WHEREAS, the parties entered into the Landscape Inclusive Maintenance Memorandum of Agreement dated, May 27, 2009 ("Original Agreement") for the purpose of the AGENCY maintaining landscape improvements on various state roads within the AGENCY'S jurisdiction, including **State Road 810 (W. Hillsboro Boulevard**); and,

WHEREAS, the DEPARTMENT and the AGENCY have agreed to add additional landscape on **State Road 810 (W. Hillsboro Boulevard)** in accordance with the Original Agreement; and,

WHEREAS, the parties hereto mutually recognize the need for entering into this Amendment, designating and setting forth the responsibilities of each party for the Additional Improvements; and,

WHEREAS, the AGENCY by Resolution No. 2025-002, dated January 23, 2025, 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:

1. The parties herein agree to modify the Original Agreement accordingly:

    a. The following sentence is added to the end of section 3.A. MAINTENANCE OF FACILITIES:

        - The AGENCY shall be responsible for all maintenance and repairs to FDOT sidewalks directly attributable to tree roots or other AGENCY maintained improvements.

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b. The following section is hereby added:

20. DEPARTMENT ACCESS TO FACILITIES

The DEPARTMENT will periodically need access to various features within the limits of this Agreement. Upon request of the DEPARTMENT, the AGENCY will have 14 calendar days to provide access to the items noted by the DEPARTMENT. This may require temporary or permanent removal of improvements such as hardscape, landscape or other items conflicting with the items to which the Department needs access.

Should the AGENCY fail to remove or relocate items as requested, the Department may:

(a) Remove conflicting improvements or any portion thereof.

(b) Restore the area with any material meeting Department standards.

(c) Restore the improvements at the request and funding of the AGENCY.

2. Pursuant to Page 7, Section 8 of the Original Agreement, the DEPARTMENT will allow an Adjacent Property Owner to construct additional landscape improvements or to modify an improvement located as indicated in **Exhibit "A"**, State Road 810 (Hillsboro Boulevard) from M.P. 1.338 to M.P. 1.379.

3. The Additional Improvements, more fully described in the plans attached to this Amendment as **Exhibit "B"** and incorporated into the Original Agreement**,** will include the following non-standard items: groundcover, shrubs and irrigation, a bicycle rack, and curved concrete sidewalks. The Additional Improvements shall be installed in accordance with the plans outlined in **Exhibit "B".**

4. The AGENCY agrees to maintain the Additional Improvements in accordance with Part I of **Exhibit "C"** Maintenance Plan for Landscape Improvements, of the Original Agreement, and in compliance with:

II. SPECIFIC PROJECT SITE MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS

A. All trees are intended to be maintained at mature height and spread.
- LI (Crape Myrtle)
- MF (Simpson Stopper)

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B. Remove suckering growth from base and clear trunk areas on single trunked trees on a quarterly basis. Lift canopy only as necessary to provide a clear walking path.

C. Groundcover and shrubs lateral growth shall be maintained to prevent foliage from growing beyond the limits of the planting areas shown on the plan. Also, maintain a 6" setback from foliage to the back of curb, pavement, and/or sidewalk.

D. Groundcovers and shrubs shall be maintained at the following vertical heights:

- ARA (Perennial Peanut) – between 6"-12" ht.
- CHH (Horizontal Cocoplum) – 18" ht.
- ERN (Golden Creeper) – between 12"-14" ht.
- GAL (Thryallis) – 20" ht
- JUN (Parson's Juniper) – between 12"-14" ht.
- LAM (Trailing Lantana) – between 12"-14" ht.
- STJ (Native Porterweed) – between 12"-14" ht.
- ZAM (Coontie) – 20" ht.

E. No mechanical pruning equipment to be used with the Zamia. Hand pruning to remove dead fronds only.

F. Inspect monthly to always maintain full ground coverage for groundcovers and shrubs.

G. Inspect the irrigation system performance on a monthly basis to ensure the system's pressure is providing adequate coverage and clean or replace any irrigation nozzles that are not properly functioning.

H. Evaluate plant material on a monthly basis for pests and diseases. If required, follow the integrated pest management program established by the Agency to ensure healthy plants.

I. To avoid slip hazard, keep concrete walkway free of mulch, sand, leaves, etc.

LIST OF EXHIBITS FOR AMENDMENT #10:

Exhibit A - Landscape Improvements Maintenance Boundaries
Exhibit B - Landscape Improvement Plans
Exhibit C - Resolution

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

Docusign Envelope ID: 1CD66425-BBB3-4A94-84CF-0E9FC84DCF54

SECTION: 86120000
COUNTY: BROWARD
STATE RD: 810
PERMIT: 2023-L-491-00007

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

CITY OF COCONUT CREEK

By: _____ Date: 1/23/25
Sheila N. Rose, City Manager

Attest:

_____ (SEAL)
Joseph J. Kavanagh, City Clerk

Legal Review:

_____
Terrill C. Pyburn, City Attorney

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

DocuSigned by:
By: John Krane Date: 01/31/2025 | 1:44 PM EST
A534C9FDF7084A5...
John Krane, P.E.,
Director of Transportation Development

Attest:

DocuSigned by:
_____ (SEAL)
E14549BD081D471...
Alia Channel, Executive Secretary

Legal Review:

Signed by:
Pamela G. Eidelberg Date: 01/29/2025 | 1:37 PM EST
0E6F6F395630448...
Pamela G. Eidelberg, Office of the General Counsel

Docusign Envelope ID: 1CD66425-BBB3-4A94-84CF-0E9FC84DCF54

SECTION: **86120000**
COUNTY: **BROWARD**
STATE RD: **810**
PERMIT: **2023-L-491-00007**

EXHIBIT A

LANDSCAPE MAINTENANCE BOUNDARIES

I. ORIGINAL LIMITS OF INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT FOR State Road 810 (HILLSBORO BOULEVARD):

M.P. 0.000 (East of State Road 7) to M.P. 1.997 (East of State Road 91)

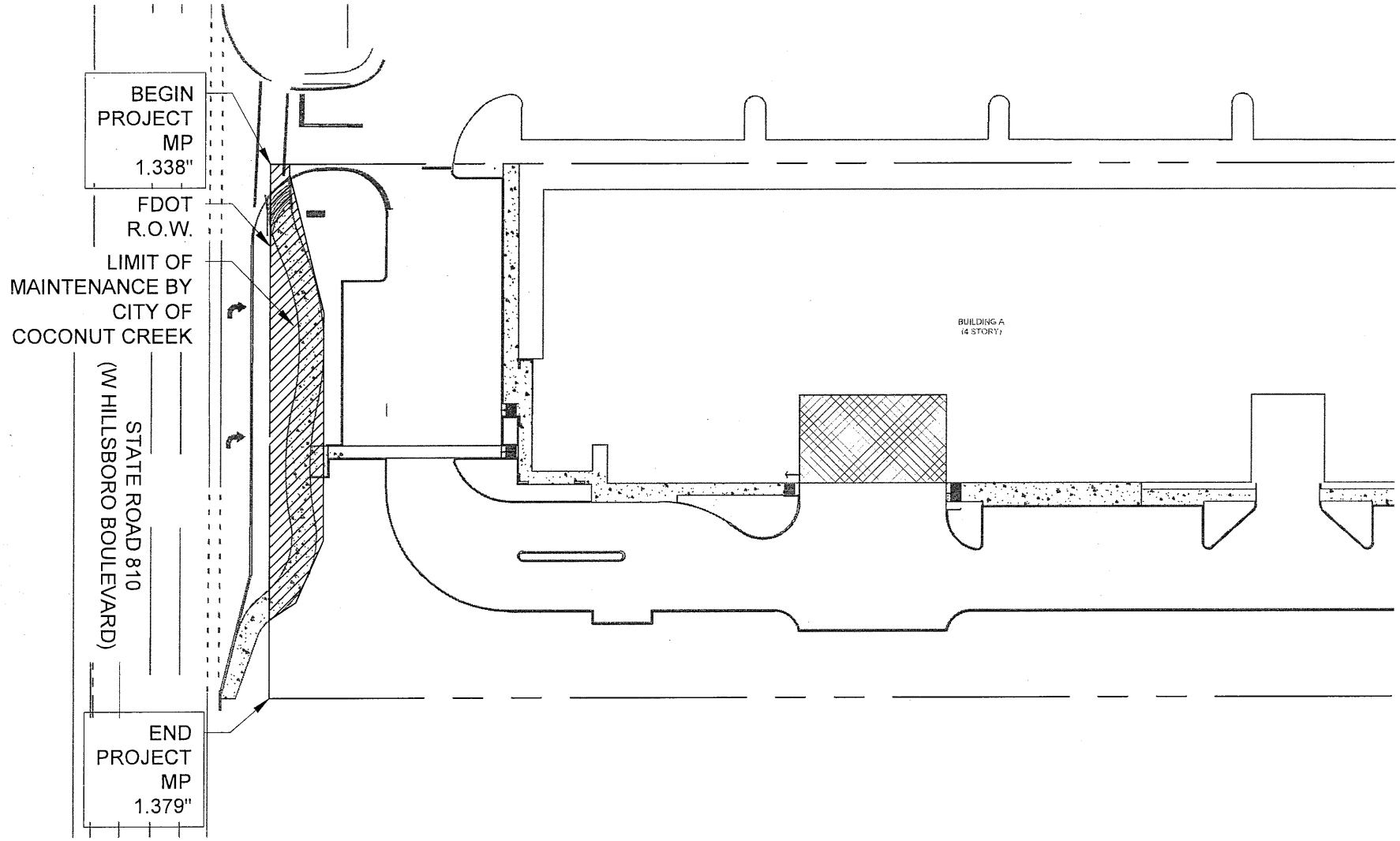
II. LIMITS OF LANDSCAPE IMPROVEMENTS FOR AMENDMENT #10:

State Road 810 (W. Hillsboro Boulevard) from M.P. 1.338 to M.P. 1.379

III. AMENDMENT #10 MAINTENANCE BOUNDARY MAP:

*Please See Attached

***All other limits of the Original Agreement and Amendments shall apply.**



KEITH
4191 West Hillsboro Blvd.
Coconut Creek, FL 33073
Florida Certificate of Authorization # - 7928

DATE: 08/07/2023
SCALE: AS NOTED
DRAWN BY: KG
DESIGN BY: MP
CHECKED BY: MP

N

GRAPHIC SCALE
0 60 120
SCALE= 1" = 60'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

LANDSCAPE IMPROVEMENT MAINTENANCE BOUNDARY MAP
CITY OF COCONUT CREEK

LM-001

FDOT LANDSCAPE PERMIT NO. 2023-L-491-00007

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SECTION: **86120000**
COUNTY: **BROWARD**
STATE RD: **810**
PERMIT: **2023-L-491-00007**

EXHIBIT B

LANDSCAPE IMPROVEMENT PLANS

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

Please see attached plans prepared by: Michael J. Phillips
KEITH

Date: July 6, 2023

Docusign Envelope ID: 1CD66425-BBB3-4A94-84CF-0E9FC84DCF54

FDOT LANDSCAPE PERMIT

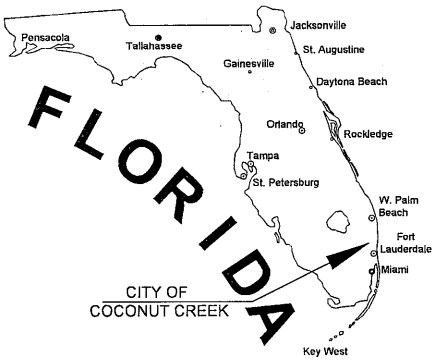
FOR

4161 HILLSBORO STORAGE

4191 W HILLSBORO BLVD.

CITY OF COCONUT CREEK

BROWARD COUNTY, FLORIDA



INDEX OF SHEETS	
SHEET No.	SHEET TITLE
GI-000	COVER SHEET
LD-101	TREE DISPOSITION PLAN
LP-001	LANDSCAPE NOTES
LP-002	LANDSCAPE SCHEDULE & DATA TABLE
LP-100	FDOT CLEAR SIGHT LINE EXHIBIT
LP-101	LANDSCAPE PLAN
LP-501	LANDSCAPE DETAILS
LI-101	IRRIGATION PLAN
LI-501	IRRIGATION DETAILS

LAND DESCRIPTION:

(PARCEL 1)

PARCEL "A" OF WORKINGMAN'S NURSERY, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 126, PAGE 22 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, LESS THAT PORTION CONVEYED TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION BY THE WARRANTY DEED RECORDED IN OFFICIAL RECORDS BOOK 33601, PAGE 1736 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

(PARCEL 2)

NON-EXCLUSIVE EASEMENT FOR INGRESS AND EGRESS FOR THE BENEFIT OF PARCEL 1 ABOVE CREATED BY, AND MORE PARTICULARLY DESCRIBED IN EXHIBIT C OF THE MUTUAL INGRESS AND EGRESS EASEMENT BETWEEN FIRST BAPTIST CHURCH OF COCONUT CREEK AND LEDER HILLSBORO COMPANY, LTD. RECORDED IN OFFICIAL RECORDS BOOK 32117, PAGE 1578, LESS AND EXCEPT THAT PORTION CONVEYED TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION BY THE WARRANTY DEED RECORDED IN OFFICIAL RECORDS BOOK 33445, PAGE 162, ALL OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

(PARCEL 3)

NON-EXCLUSIVE EASEMENT FOR INGRESS AND EGRESS FOR THE BENEFIT OF PARCEL 1 ABOVE CREATED BY, AND MORE PARTICULARLY DESCRIBED IN EXHIBIT B OF THE DECLARATION OF RESTRICTIVE COVENANTS FOR PRIVATE PAVED ROADWAYS AND ACCESS BY LEDER HILLSBORO, LTD. AND NEW LIFE COMMUNITY CHURCH OF BROWARD COUNTY, INC. RECORDED IN OFFICIAL RECORDS BOOK 33516, PAGE 122 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, LESS AND EXCEPT THAT PORTION LYING WITHIN SAID PARCEL 1.

SAID LANDS LYING IN BROWARD COUNTY, FLORIDA AND CONTAINING 126,976 SQUARE FEET (2.9150 ACRES) MORE OR LESS.

LOCATION MAP

SECTION 5, TOWNSHIP 48 SOUTH, RANGE 42 EAST

FDOT R.O.W. REQUIREMENTS:

- DESIGN SPEED: SR-7 (US 441) DESIGN SPEED = 45 MPH
- VERTICAL CLEARANCE: MIN. PLANTING VERTICAL CLEARANCE PER FDOT MAINTENANCE RATING PROGRAM:
  SIDEWALK = 8.5' VERTICAL CLEARANCE
  ROADWAY = 14.5' VERTICAL CLEARANCE

THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law.
www.callsunshine.com

PREPARED FOR:
LEDER HILLSBORO OFFICE
4755 TECHNOLOGY WAY, SUITE 203
BOCA RATON, FL 33431

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
PH: (954) 788-3400
State of Florida Certificate of Authorization Number - 7928

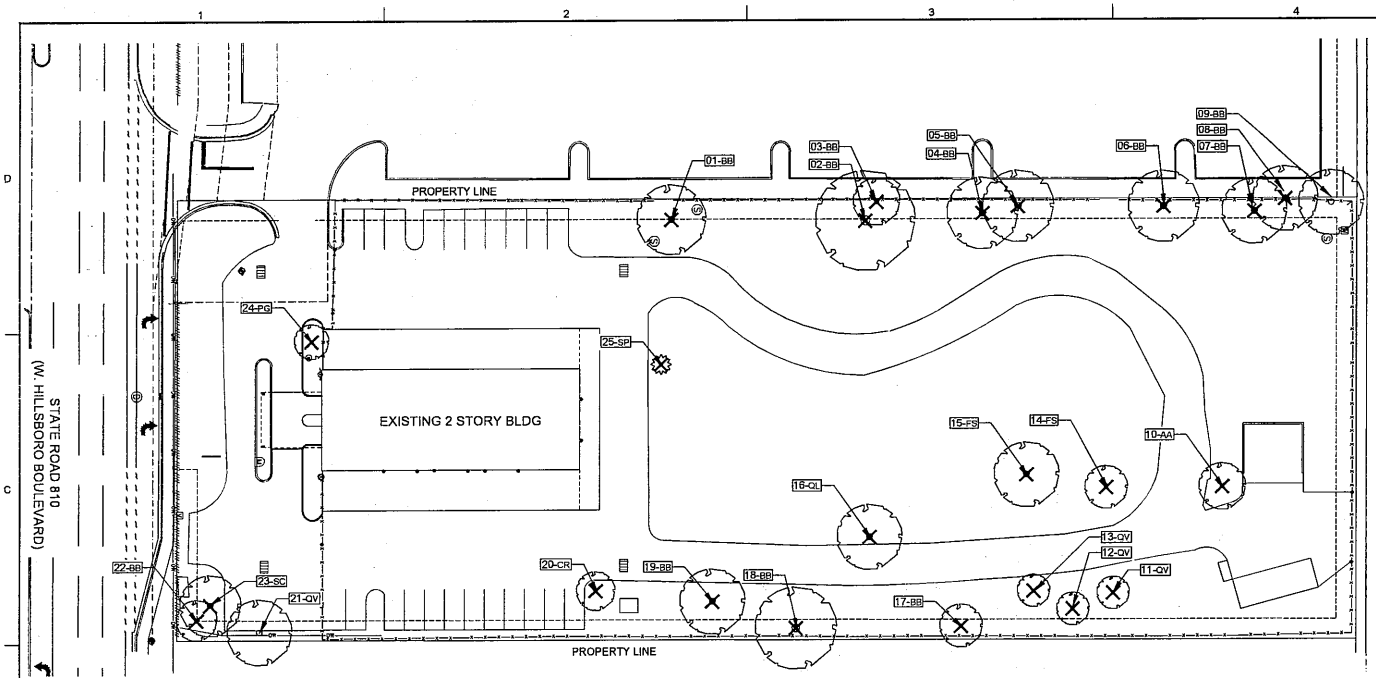
PROJECT No. 09675.01
ISSUE DATE: JULY 2023

MICHAEL J. PHILLIPS, P.L.A.
FLORIDA REG. NO. LA0001540
(FOR THE FIRM)

FDOT LANDSCAPE PERMIT

DESIGN SPEED = 45 MPH

FDOT LANDSCAPE PERMIT NO. 2023-L-491-00007



GRAPHIC SCALE

0 30 60

SCALE: 1"=30'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

TREE DISPOSITION TABLE

PROJECT #: 09675.01 | PROJECT NAME: Leder Hillsboro Blvd.

TREE #	COMMON NAME	SCIENTIFIC NAME	DBH IN.	HT. FT.	CNPY. FT.	TREE % CONDITION	TREE DISPOSITION	TREE CANOPY S.F.	COMMENTS
1	BLACK OLIVE	*"Bucida buceras"*	13	30	35	50	REMOVE	962	poor branching, inclusions, leaning, storm damag
2	BLACK OLIVE	*"Bucida buceras"*	22	35	50	40	REMOVE	1962	TD, BD, shared canopy, storm damage, deback
3	BLACK OLIVE	*"Bucida buceras"*	14	35	18	25	REMOVE	254	TD, BD, shared canopy, storm damage, deback
4	BLACK OLIVE	*"Bucida buceras"*	18	35	35	50	REMOVE	962	TD, BD, shared canopy, storm damage, deback
5	BLACK OLIVE	*"Bucida buceras"*	13	30	35	50	REMOVE	962	BD, shared canopy, shaded, storm damage
6	BLACK OLIVE	*"Bucida buceras"*	12	30	35	60	REMOVE	962	TD, BD, shared canopy, storm damage
7	BLACK OLIVE	*"Bucida buceras"*	15	30	30	60	REMOVE	706	BD, shared canopy, storm damage, deback
8	BLACK OLIVE	*"Bucida buceras"*	12	30	30	40	REMOVE	706	BD, shared canopy, inclusions, poor branching
9	BLACK OLIVE	*"Bucida buceras"*	15	30	30	40	REMAIN	706	BD, shared canopy, co-dom, inclusions, poor branching
10	EARLEAF ACACIA	*"Acacia auriculiformis"*	19	30	20	65	REMOVE	314	invasive exotic, co-dom, damaged
11	LIVE OAK	*"Quercus virginiana"*	5	20	12	50	REMOVE	113	TD
12	LIVE OAK	*"Quercus virginiana"*	2,3	12	10	50	REMOVE	79	multi-stem
13	LIVE OAK	*"Quercus virginiana"*	5	12	8	50	REMOVE	50	TD, BD
14	FICUS	*"Ficus spp."*	15	30	20	30	REMOVE	314	TD, BD, multi-stem
15	FICUS	*"Ficus spp."*	8,8	30	30	40	REMOVE	706	co-dom, BD, deback
16	LAUREL OAK	*"Quercus laurifolia"*	16	40	30	15	REMOVE	706	co-dom, BD, poor branching,severe deback
17	BLACK OLIVE	*"Bucida buceras"*	9	20	20	20	REMOVE	314	storm damage, top half snapped off
18	BLACK OLIVE	*"Bucida buceras"*	20	40	40	50	REMOVE	1256	TD, BD, shared canopy, shaded, deback
19	BLACK OLIVE	*"Bucida buceras"*	18	30	30	40	REMOVE	706	TD, BD, shared canopy, shaded, deback
20	PITCH APPLE	*"Clusia rosea"*	12	20	16	30	REMOVE	201	TD, BD, multi-stem
21	LIVE OAK	*"Quercus virginiana"*	16	25	30	50	REMAIN	706	BD, shared canopy, roots/paving
22	BLACK OLIVE	*"Bucida buceras"*	11	20	18	50	REMOVE	201	BD, shared canopy
23	JAMBOLAN PLUM	*Syzygium cumini*	22	25	25	50	REMOVE	N/A	BD, shared canopy
24	YEW	*"Podocarpus gracilior"*	11	18	14	40	REMOVE	154	BD, poor branching,deback
25	CABBAGE PALM	*"Sabal palmetto"*	10	20	12	60	REMOVE	113	
								12,590	Total S.F. canopy of trees removed

PROVIDED REPLACEMENT

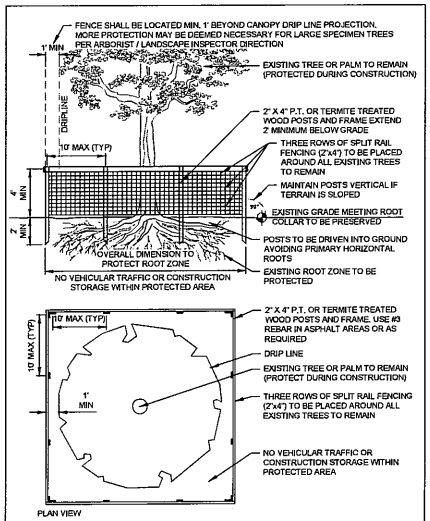
REPLACEMENT CATEGORY	EQUIVALENT REPLACEMENT VALUE	PROVIDED QTY:		PROVIDED CANOPY		
CATEGORY 1 TREES	(300 SF)	66	=	19,800 SF		
CATEGORY 2 TREES	(150 SF)	9	=	1,350 SF		
CATEGORY 3 TREES	(100 SF)	50	=	5,000 SF	12,590 SF	TOTAL CANOPY LOSS
CATEGORY 4 TREES	(50 SF)	9	=	450 SF	26,600 SF	TOTAL CANOPY REPLACEMENT

TREE DISPOSITION LEGEND:

	EXISTING TREE/PALM TO REMAIN (NO SYMBOL); TO BE PROTECTED DURING CONSTRUCTION
△	EXISTING TREE/PALM TO RELOCATE REFER TO LANDSCAPE PLAN FOR NEW LOCATION
X	EXISTING TREE/PALM TO REMOVE REMOVE ALL CAT 1 INVASIVE EXOTICS (EX: BRAZ. PEPPER)
XXX-xx	EXISTING TREE/PALM NUMBER REFER TO TREE DISPOSITION TABLE ON LD-102

TREE DISPOSITION NOTES:

1. EXISTING TREES TO REMAIN SHALL BE TRIMMED PER ANSI-A300 STANDARDS, REMOVING WEAKEST RUBBING BRANCHES AND DEAD BRANCHES, BUT RETAINING 80% OF FOLIAGE. LARGE TREES SHALL HAVE LOWER BRANCHES CLEARED UP TO 8'.
2. SYMBOLS MAY BE SHOWN OFFSET FROM ACTUAL TREE LOCATION FOR CLARITY.
3. CONTACT LANDSCAPE ARCHITECT / ISA CERTIFIED ARBORIST FOR CLARIFICATION ON ANY DISCREPANCIES.
4. TRIMMING AND ANY NECESSARY ROOT PRUNING SHALL BE PERFORMED OR SUPERVISED BY A CERTIFIED ARBORIST.
5. ALL TREE WORK REQUIRE PERMITTING BY A REGISTERED COUNTY TREE TRIMMER.
6. BUBBLERS SHALL BE PROVIDED FOR ALL RELOCATED TREES AND PALMS.
7. REMOVAL OF ANY TREES OR PALMS WILL REQUIRE A WRITTEN "TREE REMOVAL PERMIT" FROM THE LOCAL GOVERNING AGENCY PRIOR TO REMOVAL. CONFIRM WITH LOCAL GOVERNING AGENCY THAT TREES CLASSIFIED AS NUISANCE/EXOTIC INVASIVE MAY BE EXEMPT.
8. ALL TREES AND PLANT MATERIAL TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. REFER TO TREE PROTECTION DETAIL. THE CONTRACTOR SHALL TAKE EXTRA CAUTION TO PREVENT ANY DAMAGE TO THE TRUNK, ROOT ZONES AND GRADE.



TEMPORARY TREE PROTECTION DETAIL

NOT TO SCALE

DESIGN SPEED = 45 MPH

FDOT LANDSCAPE PERMIT NO. 2023-L-491-00007

KEITH

Corporate Office
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6543
(954) 788-3400

Miami-Dade County
2160 NW 82 Avenue
Doral, Florida 33122

Palm Beach County
120 N Federal Highway, Suite 208
Lake Worth, Florida 33460

Orange County
2948 E Livingston Street
Orlando, Florida 32803

State of Florida Certificate of Authorization Number - 7928

BID / CONTRACT NO. :

REVISIONS

NO.	DESCRIPTION	DATE

PRELIMINARY PLAN
NOT FOR CONSTRUCTION

THESE PLANS ARE NOT FULLY PERMITTED AND ARE SUBJECT TO REVISIONS MADE DURING THE PERMITTING PROCESS. RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER.

LEDER
4161 HILLSBORO STORAGE

SCALE:	AS NOTED
DATE ISSUED:	07/06/2023
DRAWN BY:	KG
DESIGNED BY:	MP
CHECKED BY:	MP, KS

This item has been digitally signed and sealed by Michael J. Phillips, on the date adjacent using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

REGISTERED LANDSCAPE ARCHITECT MICHAEL J. PHILLIPS LA #6001540 STATE OF FLORIDA

MICHAEL J. PHILLIPS, R.L.A
FLORIDA REG. NO. LA0001540
(FOR THE FIRM)

SHEET TITLE

TREE DISPOSITION PLAN

SHEET NUMBER

LD-101

PROJECT NO. 09675.01

..\Engineering\Cadd\XREF\Titleblock\09675.01-G-TBLK 22X34.dwg

Docusign Envelope ID: 1CD66425-BBB3-4A94-84CF-0E9FC84DCF54

A. SCOPE

1. The location of plants, as shown on the plans, is approximate. The final locations may be adjusted slightly to accommodate unforeseen field conditions, to comply with safety setback criteria, to avoid creating unsafe sight conditions, or as otherwise directed or approved by the Landscape Architect / owner in writing. All other location adjustments to the layout are to be approved in advance in writing by the Landscape Architect and owner.
2. Contractor understands that an important element of the design of this project is meeting landscape ordinances with a design flare that includes symmetry, alignment, focal points and / or smooth curvilinear forms where applied and contractor shall follow and instruct the working crews accordingly. In the event of any doubt as to how to execute the plans, Contractor shall immediately consult with Architect and/or Owner.
3. Landscape Contractor shall fine grade, prepare site as outlined in the following notes and per plans; furnish and install all plants, shrubs, trees and / or palms meeting minimum requirements and brace them per details provided. Furnish and install soil, gravel, boulders, sod and mulch as specified in plans and notes below.
4. Landscape contractor shall furnish and install all trees, palms, shrubs, groundcover, sod, planting soil, fertilizer, herbicide, pre-emergence herbicide, weed, and mulch.

B. BIDDING

1. Contractor to have liability insurance including Owner and Landscaper as insured's in excess of $10,000 as well as Worker's Compensation.
2. Contractors and Subs must ensure they are doing take offs from Bldg Dep. Revised sets and / or Bid Set documents. Verify with this Office that you are bidding from latest available plans.
3. Read ALL notes and typical planting details sheets prior to submitting RFIs and prior to bidding. .
4. When submitting an RFI reference sheet number, detail number and/or note category and number.
5. Landscape contractor shall verify all estimated quantities of material shown on the drawings prior to submitting their bid. Plant list pricing (if shown) is for permitting / mitigation comparison purposes only, any prices shown are to be disregarded by Landscape Contractor.
6. All Plant Material shall meet or exceed height and spread requirement. Heights are local code requirement and / or design intent related and always governs over container size. Container size given for reference only and must be sized-up to meet height requirements of plant list. Plant material available with excessive height beyond specifications must be consulted with Landscape Architect for design intent.
7. All landscape material was confirmed to be available at time of design. Landscape contractor understands that some material may not be available locally, however is available in Tri-County Region. Plant material supply is the responsibility of the Landscape Contractor that is awarded the contract and he/she shall take steps to ensure availability at the time of installation. Bring to the attention of Landscape Architect if specific material is no longer available at the time of bidding and / or prior to actual construction. Substitutions must be approved prior to construction.
8. Pre-inspections of site required prior to bidding.
9. The plant list is intended only as an aid to bidding. Any discrepancies found between the quantities on the plan and the quantities on the plant list shall be brought to the attention of the Landscape Architect for clarification.
10. All labor and material for soil amendments and fertilizer that is required to ensure the successful establishment and survival of the proposed vegetation, as well as all the cost for the removal of unsuitable or excess backfill material from plant beds, in addition to fine grading and mulching all planting beds and individual trees shall be included in the contractor's bid to perform the work represented in this plan set.
11. Bid shall be itemized for possible value engineering.
12. Sod and Rocks (if specified) shall be estimated by scaling plans. Include price per square foot for sod. Rocks (include price per ton). Small rocks and gravel beds shall have landscape fabric material and minimum 4" depth. Boulders to be bid by unit.
13. All S.F. if material is approximate and shall not be considered all inclusive; it is the contractor's responsibility to do his or her take off, submit price per S.F. and in the end, sod all areas that are not covered either by plants, mulch and/or rocks. It shall be the responsibility of the contractor to include in the bid, the repair of any existing sod which may be damaged during construction.
14. Final payment to the Contractor shall be for actual plants installed on the project.
15. Contractor shall be responsible for obtaining and paying for costs of all permits described in bid whether permit costs are reimbursable by owner or included in bid. Research permit status and research all permits and additional documentation and certifications required such as separate tree removal permit for example, and consider prior to bidding.
16. General / Landscape Contractor shall leave a 5% unforeseen conditions allowance such as for additional root barriers determined to be needed on site and as job progresses.
17. Refer to Section T, Watering, for supplemental watering requirement.
18. Landscape contractor is responsible for verifying all quantities prior to bidding and within 7 calendar days of receipt of these plans shall notify the landscape architect in writing of any and all discrepancies. In case of discrepancies, planting plans shall take precedence over plant list. No substitutions are to be made without prior consent of the Landscape Architect.

C. GENERAL LANDSCAPE NOTES

1. Plants grown in containers prior to installation shall be removed from their containers before they are planted in the ground and have circling roots removed. All screening shrubs shall be planted for proper operation of equipment being screened and/or per the requirements of the utility as necessary. All hedge material required for screening purposes shall be planted with branches touching. Adjust spacing as necessary and/or provide additional plants to provide an adequate screen as required by code. Leave access to utility or clearance as required.
2. All landscaping shall be installed according to sound nursery practices. Contractor shall comply with federal, state and local laws and regulations pertaining to the inspection for plant disease and insect infestation.
3. All ideas, designs and plans indicated or represented by this drawing are owned by and are the exclusive property of Keith and Associates and may not be duplicated without authorization or used for other projects than the intended.
4. The Landscape Contractor shall exercise caution to protect any existing sod, electrical and irrigation. Any damage to the sod, electrical or irrigation shall be replaced or repaired to the original state by the Landscape Contractor at no additional cost to the owner.
5. Tree, palm, accent shrubs and bed lines are to be located in the field and approved by the Landscape Architect / owner prior to planting. Landscape Contractor acknowledges that material planted without approval of location may be subject to relocation by Landscape Architect to maintain design intent if not followed properly.
6. All trees must be pruned as per Landscape Architect's direction.
7. In areas where asphalt is removed in order to maximize the landscape material, the lime rock sub-base material must also be removed and replaced with approved planting soil mix.
8. Landscape contractor is responsible for sending photographs to the landscape architect to pre-approve all trees, palms, and shrubs prior to delivery to project.
9. Landscape contractor shall coordinate his or her work with that of the irrigation, landscape lighting, and hardscape contractor if different.
10. The landscape contractor shall treat plant areas with pre-emergence herbicide after weeds and grass have been removed. Landscape contractor shall wait 7 days after pre-emergence treatment prior to planting.

D. PERMITS & REGULATIONS

1. Contractor(s) must obtain separate landscape, irrigation and tree relocation/removal permits from the governing authority prior to the issuance of the first building permit for the project.
2. Landscape contractor to call the local Landscape Inspector to schedule a pre-construction meeting prior to installation if required.
3. All mandatory requirements by local Landscape Departments and their inspectors shall govern and landscape contractor commits by accepting contract to comply promptly for builder/owner to obtain C.O.

E. TREE REMOVAL

1. Removal of any trees or palms will require a written "tree removal permit" from the local governing agency prior to removal. Non-native trees classified as "prohibited" trees may be exempt from the permit if listed as Category 1 by Florida Exotic Pest Plant Council. Confirm with Local Municipality.
2. Landscape Contractor is responsible to remove ALL invasive nuisance trees such as Brazilian Pepper, Melaleuca, Australian Pine and all invasive trees as categorized by the governing agencies, whether listed on plans or not.
3. The Landscape Contractor is responsible for coordinating tree and palm removals and transplants shown on the tree/palm Disposition Plan. The Landscape Contractor is to remove and discard from site existing unwanted trees, palms, shrubs, ground covers, sod and weeds within landscape areas.

F. EXISTING TREES

1. Existing trees designated to remain shall be protected during all construction phases. Any trees or shrubs designated to remain that are scarred or destroyed will be replaced at the contractor's expense, per the appraised value.
2. Existing plant material not shown on the plan and in conflict with new planting shall be evaluated at the time of new planting installation by the Landscape Architect. Trees and plant material indicated to be relocated with no new location provided in plans shall be moved to a location on site designated as a nursery holding area with the root ball protected from direct sunlight, maintained and irrigated until new location is determined.
3. Prune trees to remove damaged branches and improve natural shape and thin out structure. Do not remove more than 15% of branches. Do not prune back terminal leader.
4. Prune existing shrubs to remove damaged branches and improve natural shape.
5. Existing trees to remain shall be trimmed per Ansi-A300 standards. Supervision of the trimming shall be performed by an ISA Certified Arborist to ensure quality work.
6. All existing trees shall be "lifted and thinned" to provide an 8' minimum clearance for sidewalks and pedestrian walkways and a 14' minimum clearance for roadways, driveways and all vehicular use areas.
7. Selective canopy and root pruning of existing trees can be conducted (only as necessary and in no event more than 35%) to accommodate for new approved construction. Pruning shall be conducted / supervised by an ISA Arborist.
8. If plans call for relocation of trees, palms or plants, High level of care should be exercised to assure that they are not damaged in the process and that they are promptly replanted upon being dug up.
9. All underground utilities and drain or irrigation lines shall be routed outside the tree protection zone. If lines must traverse the protection area, they shall be tunneled or bored under the tree.
10. Erosion control devices such as silt fencing, debris basins, and water diversion structures shall be installed to prevent siltation and/or erosion within the tree protection zone.
11. Roots shall be cut manually by digging a trench and cutting exposed roots with a saw, vibrating knife, rock saw, narrow trencher with sharp blades, or other approved root pruning equipment.

G. TREE RELOCATION (These notes for relocation trees only and if applicable)

1. Flag all trees and palms to be transplanted with differentiating color than those to be saved or removed.
2. Tree Relocation process must be performed or supervised by ISA Certified Arborist.
3. Water the root zones to field capacity for 5 continuous days before root pruning. At a minimum soak the soil to a 4'-0" depth within a 6' radius.
   Root prune a minimum of six weeks before relocation. Prune away all dead or damaged limbs or fronds. For trees, prune out 1/3 of the existing canopy by selectively trimming small internal branches. For palms, gather fronds above the bud and tie them loosely with jute twine to avoid damage.
4. Brace root pruned trees awaiting relocation.
5. Root prune 4-6 of the root system, irrigate daily for 2 weeks then root prune another
   ½ rd, irrigate daily and prune last ½ rd on actual relocation date, no less than two weeks (six weeks total minimum root pruning by stages). ISA Arborist on staff shall observe for intense shock. Canopy pruning may be deemed necessary by Arborist on staff to balance for intense root ball loss, canopy shall be trimmed only as necessary to increase survival.
6. Root prune with proper clean equipment to sever roots. Ensure roots are not torn or pulled apart.
7. With hand tools, dig a 2'-0" wide by 3'-0" deep trench at a minimum distance as determined by the consulting arborist to expose roots. Cut all roots 1.5" and larger in diameter with a clean, sharp pruning saw. Treat all cuts with a fungicidal barrier. Backfill the trench, within 4 hours of digging, with a 1:1 mixture of site soil and sawdust or other fine organic material. Do not compact.
8. Form a rectilad size in compliance with Florida grades and Florida standards number 1 or better.
9. Maintain the soil moisture at field capacity throughout the six weeks.
10. Allow the plant to regenerate roots over a period of six weeks.
11. At the end of six weeks, prepare the planting at at the new location. Overdig the hole diameter a minimum of 2' beyond the root ball, with the recipient hole to be at least 1/3 larger than the area that was trenched for transplanting.
12. With the consulting arborist present, undercut the entire root ball of the plants to be transplanted at a depth specified by the arborist. The undercutting method may be a choker cable drawn through the root ball with heavy equipment.
13. At the direction of a professional rigger, assemble slings, padding, guiding ropes and cables for attachment to the crane or backhoe. The professional rigger shall determine the size of machinary necessary to execute the lifting and moving operation.
14. Install trees within 24 hours of removal from their original location to locations provided by Landscape Architect or Developer with approval of municipal / Landscape Inspector.
15. Experienced Tree Spade operator shall move tree or experienced tree mover shall choose best means and methods for setup and rig bed for transplanting with requirement with the same species, size, and quality or per delegation requirements specific to the governing authority with jurisdiction.
16. Maintain trees in a healthy and vigorous condition during installation and throughout the plant establishment period. Replace and stake trees to met the requirement with the same species, size, and quality or per delegation requirements specific to the governing authority with jurisdiction.
17. Fertilize the plant as directed by the consulting arborist.
18. Water the plant to settle the soil around the root ball the planting pit with topsoil and water thoroughly to eliminate air pockets and compact the soil. Set the tree no deeper than its original condition.
19. Cover the root ball area with 3" depth of organic mulch.
20. Provide additional support and protection during the period of the consulting arborist.
21. Post transplant watering to provide moisture and reduce any excessive stress due to root desiccation. Watering to be adjusted according to conditions and at the supervision and direction of the ISA certified arborist.
22. The diameter of the root-pruning or transplanting circle shall be at a distance away from the trunk equal to 12 times each inch of trunk diameter at breast height.
23. For all palms except Sabal palmetto, the lower fronds shall be pruned leaving 9-11 fronds that can be bed without an extensive amount of weight that may damage the heart of the palm. The Sabal palmetto shall have all fronds cut without damaging the bud.
24. Transplanting must occur within 24 hours after being dug for relocation. Trees/palms should be kept in shade and the canopy kept moist.
25. Digging and preparation of the new hole for the transplant shall be done prior to removing the tree from the existing location.
26. The Landscape Contractor is to verify that all new holes have appropriate percolation.
27. Padding the sling may be necessary so that the trunk or "boots" are not damaged.
28. A 6" saucer shall be created around the edge of the plant pit to help hold water, see planting detail for additional information.
29. Over the guarantee period the Landscape contractor shall be responsible for resetting any trees or palms that are not vertical when caused by winds less than 74 mph.
30. After transplanting trees and palms, the landscape contractor shall be responsible for obtaining water and watering to maintain soil moisture during the guarantee period at a minimum of: First month- daily. Second month - three times per week. Third, fourth, fifth month - two times per week. Last eight months - one time per week.
31. For trees over 4" caliper at the time of planting, the schedule should be: First six weeks, daily, one and a half months to six months - three times per week, last six months - one time per week.

H. SITE PREPARATION & GRADING

1. Landscape contractor shall loosen and till compacted soils that are overly compacted in all planting areas of the project to provide adequate aeration for plant establishment.
2. Planted areas shall be cleared of underground rocks, construction debris and other materials detrimental to the health of the plants. Lime rock base material shall be removed within planting pits and adjacent to pavement. The planting areas should be clean to a depth equal to the root ball of the trees/palms proposed for the area. Planting area soils shall be tested for ph before planting. Soils showing high (alkaline) ph (over 7.5) shall be amended or replaced with native soil having a ph range of 6.5 - 7.5, as approved by Landscape Architect.
3. All planting areas and planting pits shall be tested for soil percolation prior to final planting and irrigation installation to ensure proper drainage. Plant beds in parking lots and in areas compacted by heavy equipment shall be de-compacted so that drainage is not impeded.
4. Landscape contractor shall treat plant areas with pre-emergence herbicide after weeds and grass have been removed. Landscape Contractor shall wait (7) seven days after pre-emergence treatment prior to planting.
5. Site preparation shall include the eradication and removal of any weeds, clean-up of any dead material, debris, and rubbish.
6. General site and berm grading to +/- 1 inch (1") shall be provided by the general contractor. All finished site grading shall be provided by the Landscape Contractor. All planting beds shall be free of all rocks 1/2" or larger, sticks, and objectionable material including weeds and weed seeds. All lime rock shall be removed/cleaned down to the native soils.
7. The Landscape contractor shall ensure the planting areas are of finish grade prior to installing plant materials.
8. All trees and plant material to remain shall be protected during construction. Contractor shall install protective barriers such as "Tensa" orange safety fencing or similar, to be installed before the beginning of the project. Barriers shall be located to include the drip line of the trees, palms and plant material. The contractor shall take extra caution to prevent any damage to the trunk, root zones and grade.
9. Final grade within planting areas to be 4" below adjacent paved areas or top of curb. Sod areas to be 2" below.
10. All planting beds shall be shaped and sloped to provide proper drainage away from building and structures and to swales, if applicable.

I. IRRIGATION

1. Any Irrigation Notes and specifications included in Irrigation Sheets govern over the following Irrigation Notes.
2. The Landscape Contractor shall coordinate with the irrigation contractor if not the same and leave provisions for all individual trees in turf areas and all planting beds.
3. Irrigation / Landscape contractor to guarantee 100% coverage and 50% overlap (head to head coverage) to all landscaped areas and furnish and install a rain sensor.
4. Irrigation Contractor to adapt design to onsite conditions adjusting heads and changing nozzles as required to avoid overspray onto buildings or paved areas.
5. The contractor shall ensure that the irrigation system is operational and free of leaks prior to any planting being finalized. Plant material that is installed prior to the irrigation system being operational shall be watered by the contractor at his or her expense. Water for plant establishment should be included in the cost of the plant.
6. All guidelines as outlined by the South Florida Water Management District (SFWMD) or water management district with jurisdiction shall be strictly adhered to.
7. Any existing irrigation system shall be retrofitted to comply with the specifications as outlined above.

J. HARDSCAPE & OTHER MATERIALS

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

K. UTILITIES / CLEARANCES

1. The contractor shall be responsible for determining the location of and avoid and protect utility lines, buried cables, and other utilities. The owner or Landscape Architect shall not be responsible for damage to utility or irrigation lines.
2. Trees shall be placed a minimum of 5 ft. from underground utilities, unless otherwise approved in writing by Landscape Architect and Owner.
3. All canopy trees to be planted min. of 15' from light source/poles. Unless otherwise approved by the governing authority / Landscape Architect and Owner.
4. Landscape contractor shall contact the county, governing authority and/or utility companies to locate all underground utilities or structures prior to digging. Landscape contractor shall repair all damage to underground utilities, and/or construction caused by utility damage, at no cost to the owner.
5. All plant material symbols shown on landscape plan shall be considered diagrammatic and should be adjusted in the field by contractor to avoid all utilities, and all other obstructions.
6. It When digging in right of way needed: Two (2) full business days before digging, call toll free 1-800-432-4770, or 811, Sunshine State One Call of Florida, Inc. Notification Center. In addition, call the Governing Agency's Utilities/Public Works Department. Contractors are responsible for coordinating with the owners and appropriate public agencies to assist in locating and verifying all underground utilities prior to excavation. All existing utilities shown on the plans are to be considered approximate and should be verified by the contractor prior to the start of work operations.
7. Above and below ground utilities shall be verified and located in the field by the contractor prior to commencing work in the project area. The contractor shall examine available utility plans and confirm conflicts between indicated or located utilities and landscape work. The contractor shall then notify the Project Engineer of said conflicts and the Engineer will coordinate any necessary adjustments with the utility provider. Tree locations will be adjusted as necessary when in conflict with existing utilities.
8. The final plant locations may be adjusted, as approved / directed by the Landscape Architect in writing, to accommodate utilities compliance. Excavations within 5' of known utilities should be done by hand.
9. Contractor shall familiarize himself with the location of and avoid and protect utility lines, buried cables, and all other utilities, noted or not, on plans.
10. Leave clearance and access to all above ground or at grade meters and equipment.
11. Landscape planting shall be in conformance with FPL guidelines for setbacks from overhead utility lines.
12. Landscaping shall not interfere with light poles, fire hydrants, electrical/mechanical equipment access, signs, drainage structures, etc. Bring to the attention of Landscape Architect any conflicts.

L. ROOT BARRIERS

1. Root barriers will be installed to protect building foundations, curbing, walkways, paved areas, roadway base material and utilities from existing large trees or proposed new trees that are within 5' of existing or new approved construction or as may be deemed necessary as job progresses.
2. Mechanical Root barriers will be used for large existing Canopy Trees and chemical type barriers will be used for new trees.
3. Mechanical Root barriers will be "DeepRoot" and Chemical Root barriers will be "Biobarrier". Substitutions must be of approved equal or better quality.
4. Root barriers will be installed per manufacturer specifications.
5. Root barrier depths will be determined by the manufacturer recommended depth chart and as required by on-site conditions in a case by case basis as deemed necessary by Landscape Architect Architect / ISA Arborist and Landscape Inspector.

M. LANDSCAPE BACKFILL & SOIL AMENDMENT

1. All building construction material and foreign material shall be removed from the planting areas and replaced with 70/30 mix (70% sand / 30% organic compost) or amend existing soils per section H.2.
2. Planting soil mix shall be delivered to the site in a clean loose and friable condition and is required around the root ball of all plants and trees, the top 6" of all shrub and ground cover beds and top 2" of all grassed areas. This soil shall be tilled into the existing soil after the existing soil has been cleaned of all undesirable foreign materials. Recycled compost is encouraged as a soil amendment alternative. Planting soil to be weed free.
3. Planting backfill for palms shall be a clean coarse native sand unless specified elsewhere.
4. Do not allow air pockets to form when backfilling. All trees shall be watered-in utilizing water probe or a tree bar.

N. PLANT SIZE & QUALITY

1. All plant material must meet or exceed the minimum size requirements as specified on the plant list. Height specification governs over container size if both specifications given cannot be met. Any other requirements for specific shape or effect as noted on the plan shall also be required for acceptance.
2. Material specified as Balled and Burlapped (B&B) can be accepted in container if not available as B&B at the discretion of Landscape Architect; if so, root bound and/or circling roots shall be removed and root ball must be proportionate to Tree / Palm.
3. U.O.N. All trees designated as single trunk shall have a single, relatively straight, dominant leader, proper structural branching and even branch distribution. Trunks on palms shall be uniform in thickness for the entire length of the palm and shall not taper off to disproportionate thinness towards the crown. Trees with bark inclusion, tipped branches, and co-dominant trunks will not be accepted. Trees with girdling, circling and/or plunging roots will be rejected.
4. Use nursery grown plant materials that complies with all required inspection, grading standards, and plant regulations in accordance with the latest edition of Florida Department of Agriculture, "Grade & Standards for Nursery Plants".
5. All trees and palms shall be free of open wounds and unsightly visible scars.
6. All substitutions must be approved by the governing authority if it is required Canopy and by Landscape Architect / Owner if supplementary accent material.
7. Contractor shall comply with Federal, State, and Local laws and regulations pertaining to the inspection for plant disease and insect infestation.
8. Trees, palms, shrubs, ground covers.
   Plant species and sizes shall conform to those indicated on the drawings. All nursery stock shall be in accordance with grades and standards for nursery plants parts 1 and 2, latest edition published by the Florida Department of Agriculture and Consumer Services, unless specified otherwise. All plants shall be Florida grade number 1 or better as determined by the Florida Division of Plant Industry and tightly knit plant, so trained or grown at its development that first class representative trees and it is outstandingly superior in form, number of branches, compactness and symmetry. All plants shall be freshly dug, sound, healthy, vigorous, well branched and free of disease and insect eggs and larvae and shall have adequate root systems. Trees and palms shall be uniform in size and shape. All materials shall be subject to approval by the Landscape architect. Plants shall be pruned prior to delivery only upon the approval of the Landscape Architect.
9. All container grown material shall be healthy, vigorous, well-rooted plants and established in the container in which they are sold. The plants shall have tops of good quality and be in a healthy growing condition. An established container grown plant shall be transplanted into a container and grown in that container sufficiently long enough for the new fibrous roots to have developed sufficiently to hold the root ball and hold together when removed from the container.
10. Field grown trees and palms previously root pruned shall obtain a root ball with sufficient roots for continued growth without resulting shock.
11. Root suckers on any tree are not acceptable and must be properly pruned.
12. Contractor shall coordinate with Landscape Architect and Owner to obtain prior approval for the selection of the specific specimens of all palms and any trees of more than six feet in height. Contractor to supply photograph of trees prior to purchase and installation.

O. PLANTING NOTES

1. At the discretion of the Landscape Architect, plants are subject to review for approval for size, variety, condition and appropriateness and/or design intent.
2. All synthetic burlap, synthetic string or cords, or wire baskets shall be removed before any trees are planted. All synthetic tape (i.e. tagging tape, nursery tape) shall be removed from trunks, branches, etc. before inspection. The top 1/3 of any natural burlap shall be removed or tucked into the planting hole before the trees are back filled.
3. All "groundcover" requires 75% coverage and 100% within 3 months of installation. Bring to the attention of Landscape Architect in writing before commencing if this is not achievable with the design.
4. Set tree no deeper than it was in its original growing condition with the top of the root ball even with, or slightly higher (+/- 1") than the finished grade.
5. All tree/palms shall be planted so the top of the root ball, root flair are slightly above final grade. Shrub material shall be planted such that the top of the plant ball is flush with the surrounding grade.
6. All trees and palms shall be braced / staked per accepted standards by the Florida Nursery, Growers & Landscape Association (FNGLA). Nailing into trees and palms for any reason is prohibited and the material will be rejected. Please refer to the planting details.
7. All trees, new or relocated, to be staked and guyed as detailed.
8. Layout shrubs to create a continuous smooth front line and fill in behind with triangular spacing.
9. Excavate pit or trench to 1-1/2 times the diameter of the balls or containers or 1' wider than the spread of roots and 3" deeper than required for positioning at proper height . Compact a layer of topsoil in bottom before placing plants. Backfill around plants with planting mixture, compacted to eliminate voids and air pockets. Form grade slightly dished and bermed at edges of excavation. Apply 3" of mulch.
10. Groundcover and shrubs to be spaced in a uniform and consistent pattern per planting details.
11. All mechanical equipment, irrigation pumps, FPL transformers, pool pumps, etc. shall be screened on a minimum of three sides by landscape shrubs.
12. Contractor shall not mark or scar trunks in any fashion.
13. When requested by Landscape Architect, demonstration of healthy root system if not previously approved, can include tree removal and re-installation for inspection at no additional cost to the owner.
14. Remove rejected Plant material from the Site immediately and replace with acceptable plants.

P. FERTILIZATION

1. All Fertilization shall comply with state fertilization laws. Fertilization shall be Agriform "20-10-5 Plus minors" or similar approved slow-release tablets applied per manufacturer suggested application rate chart.

Agriform® 21-gm Tablets (SKU# 90026", 500 tablets/case)

NEW Tree / Shrub Container Size

	1 Gal	2 Gal	5 Gal	6 Gal	7 Gal	15 Gal	24" Box
Installation:	1	1 to 2	2 to 3	2 to 3	3 to 5	7 to 10	15 to 24

- Place plant in the hole and backfill to halfway point.
- Do not place tablets in the bottom of the planting hole.
- Place Agriform Tablets in the hole about 1to 2 inches away from root tips.
- Finish filling the hole around the plant to grade level.
- SCOTTS: 1-800-492-8255 or visit www.scottspro.com

Q. SOD

1. All areas disturbed during construction shall be sodded with St. Augustine 'Seville' unless otherwise noted. These disturbed areas shall have proper irrigation established or re-established if they were disrupted or non-functional.
   Landscape Contractor to supply and install 2" sod layer 90/60 mix blanket for all new sod areas.
2. All open areas not covered by trees, palms, shrubs, vines, ground covers or existing sod in good condition to remain, shall receive Stenotaphrum Secundatum, St. Augustine 'Seville' sod, whether labeled on the plans or not, unless a different species is indicated on the planting plan. Sod shall be strongly rooted, free from weed, fungus, insects and disease. Contractor shall be paid by the total sodded area x the unit price submitted (field verified).
3. Sod shall be machine stripped no more than 24 hours prior to laying.
4. Lay sod strips with tight joints, do not overlap, stagger strips to offset joints in adjacent courses. Work sifted soil mix into minor cracks between pieces of sod and remove excess soil deposits from sodded areas. Sod on slopes greater than 3:1 shall be immediately staked after planting.

R. SUBMITTALS

1. Submit 1 gallon container of all planting media for landscape architect review. Samples to include specified planting mix, topsoil, containers planting mix (if applicable) and mulch.
2. Submit representative nursery photos of all Trees and Palms for review prior to delivery to the site. Include scale for height.
3. Submit representative nursery photos of all shrub and groundcover material for review prior to delivery to the site.

S. INSPECTION & ACCEPTANCE

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

T. MULCH

1. All planting beds shall be mulched to a depth of 3" with an organic mulch approved by Landscape Architect. No heavy wood mulch, such as answer, etc. are to be contained in the mulch. The contractor shall provide certification if requested or proof that all mulch is free of heavy metals or similar environmental contaminants.
2. Shredded approved organic mulch to be used beyond trunk in all directions and throughout all hedges and plant areas.
3. All trees in sodded areas shall have a clean cut 4' diameter mulch ring.
4. Preferred mulch is shredded melaleuca, Cypress, red, gold and green mulch is prohibited.
5. All mulch shall have a minimum 3" separation from the trunk of the tree/palm trunk to avoid rotting.

U. WATERING

1. All plant material shall be watered in thoroughly at the time of planting.
2. It is the sole responsibility of the Landscape Contractor to ensure that all new plantings receive adequate water during the installation and until completion of contract. Deep watering of all new trees and palms and any supplemental watering that may be required to augment natural rainfall and site irrigation is mandatory to ensure proper plant establishment and development and shall be provided by Contractor as a part of this contract.

V. CLEAN UP

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

W. MAINTENANCE

1. Landscape Contractor to return to job site 12 months after tree bracing and remove all tree braces. Owner may choose to retain 5% of payment to ensure compliance.
2. The Landscape Contractor shall water, mulch, weed, prune, and otherwise maintain all plants, including sod, until completion of contract or acceptance by landscape architect. Settled plants shall be reset to proper grade, planting saucers restored, and defective work corrected.
3. Trees and shrubs shall be maintained to keep clearance of stop signs and safety clearance for visibility at traffic intersection.

X. GUARANTEE & REPLACEMENT

1. By accepting the contract Landscape Contractor is thereby guaranteeing all plant materials and design for a period of not less than one (1) year from the time of final acceptance by the owner. Contractor shall replace any plants which die or wither within such period with healthy plants that meet specifications of the same species and size without additional cost to the owner unless such death or withering is due to Owner's failure to do ordinary maintenance on such plants after final acceptance in accordance with any maintenance instructions given by Landscape Architect for such plants. Such replacement shall include all plants and labor to plant the replacement plants. Any plant materials damaged by lightning, storms, freeze damage or other "acts of God" as well plants damaged by vehicles, vandalism or neglect are not included in this replacement agreement. If requested, the Landscape Architect may act as a mediator between owner and Landscape Contractor on a time material basis. "Plants" includes all trees, palms, shrubs, grass and other plants provided or planted by Contractor.

Y. MISCELLANEOUS.

1. All work to be done in a professional manner.
2. No change order shall be valid, due or paid unless it is approved by Owner in writing in advance.
3. These notes shall be an integral part of the contract of Contractor and shall be deemed incorporated therein by reference. In the event of a conflict among the terms among the plans and these notes, the terms of this document shall control.

Z. ABBREVIATIONS IN NOTES AND PLANS

U.N.O. = Unless Otherwise Noted
L.A = Landscape Architect
S.F.= Square Feet
STD = Standard (single trunk)
B&B = Balled and Burlapped
BLDG DEP = Building Department
RFI = Request for Information
FPL= Florida Power & Light
C.O. = Certificate of Occupancy
ISA CA = ISA Arborist = International Society of Arboriculture Certified Arborist

DESIGN SPEED = 45 MPH

FDOT LANDSCAPE PERMIT NO. 2023-L-491-00007

KEITH
Corporate Office
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400

Miami-Dade County
2160 NW 82 Avenue
Doral, Florida 33122

Palm Beach County
120 N Federal Highway, Suite 208
Lake Worth, Florida 33460

Orange County
2948 E Livingston Street
Orlando, Florida 32803

State of Florida Certificate of Authorization Number - 7926

BID / CONTRACT NO. :

REVISIONS

NO.	DESCRIPTION	DATE

PRELIMINARY PLAN
NOT FOR CONSTRUCTION
THESE PLANS ARE NOT FULLY PERMITTED AND ARE SUBJECT TO REVISIONS MADE DURING THE PERMITTING PROCESS. RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER.

LEDER
4161 HILLSBORO STORAGE

SCALE:	AS NOTED
DATE ISSUED:	07/06/2023
DRAWN BY:	KG
DESIGNED BY:	MP
CHECKED BY:	MP, KS

This item has been digitally signed and sealed by Michael J. Phillips, on the date below using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

RICHARD MICHAEL PHILLIPS LANDSCAPE ARCHITECT — MICHAEL J. PHILLIPS — LA 0001640 — STATE OF FLORIDA

MICHAEL J. PHILLIPS, R.L.A
FLORIDA REG. NO. LA0001640
(FOR THE FIRM)

SHEET TITLE
LANDSCAPE NOTES

SHEET NUMBER
LP-001

PROJECT NO. 09675.01

Document Path: R:\09675\1-Architects\Leder Bros\Hillsboro Storage\CAD\Sheets\LP-001_LANDSCAPE.dwg Last Saved By: Kathryn Gerard Date: Jul 06, 2023 - 2:52pm

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City of Coconut Creek - Landscape Requirements		
Zoning	PCD	
Net Site Area	126,976 SF	2.91 AC
Total Pervious Area	37,207 SF	
Minimum Landscape Requirements		
	REQUIRED	PROVIDED
1 Tree per 1000 SF (Min.) 37,207/1000 =	37 TREES	37 TREES
5 shrubs per 1000 SF (Min.)	186 SHRUBS	186 SHRUBS
* Includes Existing Trees		
Buffer/Perimeter Trees		
	REQUIRED	PROVIDED
West (S83°) 1 tree per 40 LF	N/A	N/A
East (S83°) 1 tree per 40 LF	15	15 TREES
Roadway Buffer Requirement		
1 tree per 2000 SF of total land area	REQUIRED	PROVIDED
40 shrubs per 2000 SF plus continuous hedge (3 tiers):		
North (NW 71st St) - 3,270 SF/2000 SF =	2 TREES	4 TREES
	65 SHRUBS	108 SHRUBS
South (Hillsboro Blvd) - 5,450/2000 SF =	3 TREES	3 TREES
	109 SHRUBS	978 SHRUBS
Street Trees		
North (218') 1 tree per 40 LF	6 TREES	6 TREES
South (218') 1 tree per 30 LF (overhead wires)	8 TREES	8 TREES
VUA Requirement		
VUA Impervious Area	41,379 SF	
	REQUIRED	PROVIDED
1 SF of Landscape area required per 100 SF of paved area	414 SF	26,981 SF
Parking Islands - 1 tree per Island	9 TREES	9 TREES
Building Foundation (sec. 13-443 (7) c		
BUILDING A		
1 tree, 20 shrubs, 30 gc per 40 LF (tiered)	REQUIRED	PROVIDED
North side (26 LF)	1 tree 13 shrubs, 20 Gc	4 palms, 50 Shrubs, 0 GC
South side (109 LF)	3 trees 55 shrubs, 82 Gc	4 trees, 76 Shrubs, 74 GC
East side (206 LF)	5 trees 103 shrubs, 154 Gc	3 trees, 245 Shrubs, 313 GC
West side (380 LF)	10 trees 190 shrubs, 285 Gc	12 trees, 332 Shrubs, 200 GC
TOTAL TREES REQUIRED		
Includes buffer trees, street trees, parking island trees, bldg foundation and min tree code required	97	117*
Native Requirement		
	REQUIRED	PROVIDED
Trees - 50% of required trees	49 TREES	85
Shrubs - 50% of required shrubs	343 SHRUBS	2,977 SHRUBS
Tree Requirement		
	REQUIRED	PROVIDED
Canopy Trees - minimum 40% of required trees'	39	68*
Intermediate Trees - minimum 30% of required trees	29	14
Small Trees - minimum 10% of required trees	10	8
Palms - 3:1= canopy tree; 50% of required max		36 (12 TREES)

*Includes Existing

***Trees/Shrubs added to adjacent buffer

PLANT LIST

	SHRUBS & GROUNDCOVERS				
QTY	** N	KEY	PLANT NAME	SIZE / REMARKS	SPECIE %
375	**	ARA	*Arachis glabrata* PERENNIAL PEANUT	6" HT; 12" SPRD; 12" O.C.	8.5%
178	**	CLU	*Clusia guttifera* SMALL LEAF CLUSIA	36" HT; 30" SPRD; FULL TO BASE; 30" O.C.	4%
90	**N	CHH	*Chrysobalanus icaco 'Horizontal'* HORIZONTAL COCOPLUM	18" HT; 20" SPRD; 24" O.C.	2%
285	**N	CHR	*Chrysobalanus icaco* COCOPLUM	24" HT; 24" SPRD; 24" O.C.	7%
74	**N	CRN	*Clusia rosea 'Nana'* DWARF CLUSIA	12" HT; 15" SPRD; 18" O.C.	2%
648	**N	ERN	*Ernodia littoralis* GOLDEN CREEPER	12" HT; 14" SPRD; 16" O.C.	15%
35	*	GAL	*Galphimia gracilis* THRYALLIS	24" HT; 24" SPRD; 24" O.C.	1%
11	**N	HAM	*Hamelia patens* FIREBUSH	5' HT; 35" SPRD; FULL; TREE FORM	.02%
219	**	HPD	*Hamelia nodosa* *DWARF* FIREBUSH	24" HT; 24" SPRD; 24" O.C.; FULL TO BASE	5%
95	**	JUN	*Juniperus conferta 'Parsonii'* PARSON'S JUNIPER	12" HT; 16" SPRD; 18" O.C.	2.5%
105	**	LAM	*Lantana montevidensis* Trailing Lantana	12" HT; 14" SPRD; 18" O.C.	2.5%
213	**N	MUH	*Muhlenbergia capillaris* GULF MUHLY GRASS	24" HT; 24" SPRD; 30" O.C.	5%
305	**N	NEP	*Nephrolepsis exaltata* SWORD FERN	12" HT; 14" SPRD; 24" O.C. CERTIFIED NATIVE ONLY	9%
7	*	PAS	*Passiflora incarnata* PURPLE PASSION VINE	6' HT; FULL VINE; ATTACH TO WALL GRID	.01%
315	*N	PSY	*Psychotria nervosa* WILD COFFEE	20" HT; 24" SPRD; 24" O.C.	10%
50	*	RON	*Rondeletia splendens* PANAMA ROSE	24" HT; 24" SPRD; 24" O.C.	1%
35	**N	SER	*Serenoa repens* SAW PALMETTO	18" HT; 18" SPRD; 36" O.C.	1%
75	**N	STJ	*Stachytarpheta jamaicensis* NATIVE PORTERWEED	12" HT; 16" SPRD; 24" O.C.	2%
28	*	TFP	*Tabernaemontana 'Flore Pleno'* CRAPE JASMINE	36" HT; 36" SPRD; FULL CANOPY; TREE STANDARD	1%
265	**N	TRD	*Trachelospermum floridanum* DWF FAKAHATCHEE GRASS	24" HT; 24" SPRD; 30" O.C.	4%
1800	**N	WET	*Sagittaria, Pontederia, Juncus* WETLAND MIX	12" HT; BARE ROOT; 24" O.C.; 40%, 20%, 40% QTY.	29%
175	**N	ZAM	*Zamia pumila (Zamia floridana)* COONTIE	20" HT; 20" SPRD; 24" O.C.	4%
		SOD	ST. AUGUSTINE 'FLORATUM'	SOLID SOD	

N DENOTES NATIVE SPECIES

** DENOTES HIGH DROUGHT TOLERANT SPECIES

* DENOTES MODERATE DROUGHT TOLERANT SPECIES

PLANT LIST

	TREES					
QTY	** N	KEY	PLANT NAME	SIZE / REMARKS	SPECIE %	REPL CAT
5	*N	AR	*Acer rubrum* RED MAPLE	15' HT; 7' SPRD; FULL CANOPY	3%	1
12	**N	CE	*Conocarpus erectus* GREEN BUTTONWOOD	12' HT; 6' SPRD; FULL CANOPY	9%	1
13	**N	BS	*Bursera Simaruba* GUMBO LIMBO	12' HT; 6' SPRD; FULL CANOPY	9%	1
3	*N	IC	*Ilex cassine* DAHOON HOLLY	10' HT; 4' SPRD; FULL CANOPY	2%	3
3	**	ED	*Eleocarpus decipiens* JAPANESE BLUEBERRY	12' HT; 5' SPRD; FULL CANOPY	3%	2
3	**	LI	*Lagerstroemia indica* CRAPE MYRTLE	10' HT; 5' SPRD; MULTI-STEM; FULL CANOPY	2%	3
8	**N	MF	*Myrcianthes fragrans* SIMPSON STOPPER	8' HT; 5' SPRD; MULTI-STEM; FULL CANOPY	6%	3
10	**N	PI	*Pinus elliottii* SLASH PINE	12-15' STAGGERED HTS; 6'-7' SPRD; FULL CANOPY	4%	1
12	**N	QV	*Quercus virginiana* LIVE OAK	15' HT; 7' SPRD; FULL CANOPY	9%	1
3	**N	QV*	*Quercus virginiana* LIVE OAK	16' HT; 8' SPRD; FULL CANOPY	2%	1
8	**N	TD	*Taxodium distichum* BALD CYPRESS	15' HT; 6' SPRD; FULL CANOPY	4%	1
9	**N	TD2	*Taxodium distichum* BALD CYPRESS	10' HT; 4' SPRD; FULL CANOPY	7%	3
-	**	TH	*Tabebuia heterophylla* PINK TRUMPET	12' HT; 6' SPRD; FULL CANOPY	3%	2
8	**	PE	*Ptychosperma elegans* SOLITAIRE PALM	8' & 12' CT; STAGGERED HTS; SINGLE	6%	4
1	**	PE3	*Ptychosperma elegans* SOLITAIRE PALM	8' - 12' CT; STAGGERED HTS; TRIPLE	1%	4
51	**N	SP	*Sabal palmetto* CABBAGE PALM / SABAL PALM	14 - 28' STAGGERED CT HTS; SLICK; SEE PLAN	20%	3

DESIGN SPEED = 45 MPH

FDOT LANDSCAPE PERMIT NO. 2023-L-491-00007

KEITH

Corporate Office
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400

Miami-Dade County
2160 NW 82 Avenue
Doral, Florida 33122

Palm Beach County
120 N Federal Highway, Suite 208
Lake Worth, Florida 33460

Orange County
2948 E Livingston Street
Orlando, Florida 32803

State of Florida Certificate of Authorization Number - 7928

BID / CONTRACT NO. :

REVISIONS

NO.	DESCRIPTION	DATE

PRELIMINARY PLAN
NOT FOR CONSTRUCTION

THESE PLANS ARE NOT FULLY PERMITTED AND ARE SUBJECT TO REVISIONS MADE DURING THE PERMITTING PROCESS. RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER.

LEDER
4161 HILLSBORO STORAGE

SCALE:	AS NOTED
DATE ISSUED:	07/06/2023
DRAWN BY:	KG
DESIGNED BY:	MP
CHECKED BY:	MP, KS

This item has been digitally signed and sealed by Michael J. Phillips, on the date below using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

REGISTERED LANDSCAPE ARCHITECT MICHAEL J. PHILLIPS LA 6001540 STATE OF FLORIDA

MICHAEL J. PHILLIPS, R.L.A.
FLORIDA REG. NO. LA0001540
(FOR THE FIRM)

SHEET TITLE

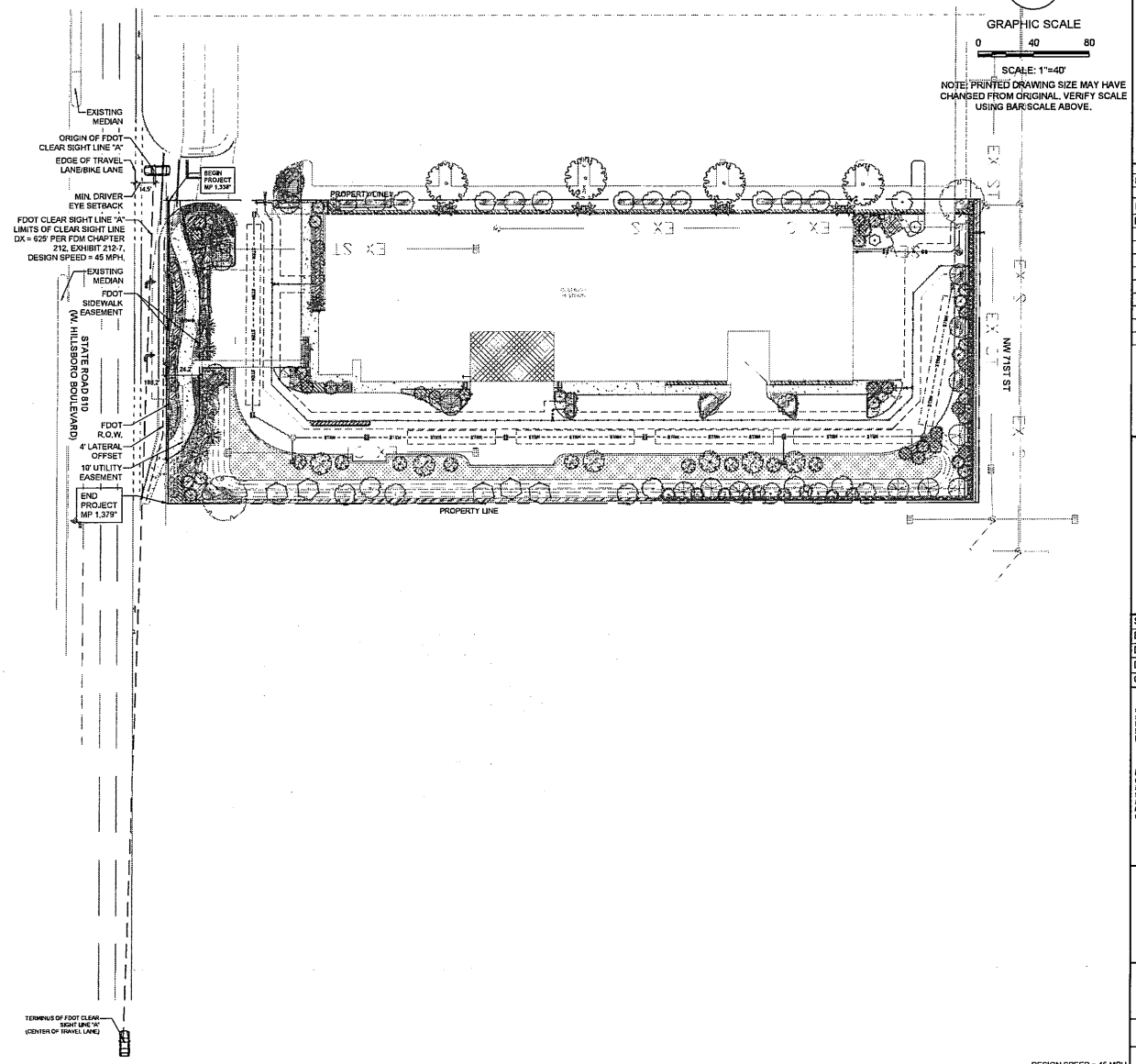
LANDSCAPE SCHEDULE & DATA TABLE

SHEET NUMBER

LP-002

PROJECT NO. 09675.01

Docusign Envelope ID: 1CD66425-BBB3-4A94-84CF-0E9FC84DCF54



DESIGN SPEED = 45 MPH

FDOT LANDSCAPE PERMIT NO. 2023-L-491-00007

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MICHAEL J. PHILLIPS, R.L.A.
FLORIDA REG. NO. LA0001540
(FOR THE FIRM)

SHEET TITLE

FDOT CLEAR SIGHT LINE EXHIBIT

SHEET NUMBER

LP-100

PROJECT NO. 09675.01

Docusign Envelope ID: 1CD66425-BBB3-4A94-84CF-0E9FC84DCF54

FDOT GENERAL NOTES:

1. GOVERNING STANDARD PLANS:
   FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2022-23 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRS) ARE AVAILABLE AT THE FOLLOWING WEBSITE: https://www.fdot.gov/design/standardplans
2. GOVERNING STANDARD SPECIFICATIONS:
   FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2022 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING WEBSITE: https://www.fdot.gov/programmanagement/implemented/specbook1
3. CONTRACTOR SHALL REPAIR ALL DAMAGE DONE TO FDOT PROPERTY DURING DEMOLITION, RELOCATION &/OR INSTALLATION ACTIVITIES AT HIS SOLE EXPENSE.
4. ANY PLANT MATERIAL SUBSTITUTION WITHIN OR IMPACTING THE FDOT RIGHT OF WAY WHETHER REQUESTED BY THE CONTRACTOR, OWNER, LANDSCAPE ARCHITECT OR OTHER WILL NEED TO GET APPROVAL FROM THE FDOT DISTRICT LANDSCAPE ARCHITECT.

FDOT PLANTING NOTES:

1. FOR THE PORTION OF LANDSCAPE PLANT MATERIAL THAT WILL BE INSTALLED WITHIN THE FDOT RIGHT OF WAY, LANDSCAPE INSTALLATION SHALL COMPLY WITH CURRENT APPLICABLE FDOT MAINTENANCE SPECIFICATION 580, ONLINE REFERENCE: *sam5400090ws2-722-r17992.pdf (windows.net)*
2. FOR THE PORTION OF LANDSCAPE PLANT MATERIAL THAT WILL BE INSTALLED WITHIN THE FDOT RIGHT OF WAY REFER TO THE FDOT STANDARD PLANS INDEX 580-001 LANDSCAPE INSTALLATION, ONLINE REFERENCE: *https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/design/standardplans/2022/idx/580-001.pdf*
3. CYPRESS MULCH IS NOT PERMITTED ON FDOT RIGHT OF WAY, MULCH PERMITTED TO BE USED ARE HARDWOOD MULCH (CONTAINING NO CYPRESS PRODUCTS), RECYCLED MULCH OR APPROVED EQUAL, CERTIFIED BY THE MULCH AND SOIL COUNCIL (MSC). SUBMIT PROOF OF CERTIFICATION TO THE FDOT DISTRICT OPERATIONS PERMIT LANDSCAPE INSPECTOR UPON INSPECTION.
4. SODDED AREAS WILL BE IN ACCORDANCE WITH STANDARD PLANS INDEX 570-010 AND STANDARD SPECIFICATIONS SECTION 162, 570, 981, 982, 983, 987 OF THE DEPARTMENT'S LATEST EDITION OF GOVERNING DESIGN STANDARDS AND STANDARD SPECIFICATIONS. ALL DISTURBED AREAS WILL BE SODDED WITHIN ONE(1) WEEK OF INSTALLATION OF SAID PERMITTED WORK.

FDOT R.O.W. REQUIREMENTS:

- DESIGN SPEED = 45 MPH
- VERTICAL CLEARANCE: MIN. PLANTING VERTICAL CLEARANCE PER FDOT MAINTENANCE RATING PROGRAM:
  SIDEWALK = 8.5' VERTICAL CLEARANCE
  ROADWAY = 14.5' VERTICAL CLEARANCE

CITY STANDARD LANDSCAPE NOTES

1. All landscape and specifications shall meet or exceed the minimum requirements as provided in the City of Coconut Creek Land Development Code. Plans are incomplete without written notes and specifications.
2. All planting material shall meet or exceed Florida Grade #1 as specified in Grades and Standards for Nursery Plants, current edition. Trees shall not be tipped, topped, or shaped prior to installation.
3. Landscape shall be placed in edge of abutting streets, canals, lakes or other lands.
4. All mechanical equipment, air conditioning, irrigation pump stations and equipment, FPL transformers, pool pumps, etc., must be screened on three (3) sides by landscape shrubs.
   NOTE: The quantity of screening shrubs is in addition to the required number of shrubs as provided in the code calculation table. All screening shrubs shall be planted for proper operation of equipment being screened and/or per the requirements of the utility as necessary. All hedge material required for screening purposes shall be planted with branches touching. Adjust on-center spacing as necessary and/or provide additional plants to provide an adequate screen.
5. Sight distance concerns must be maintained for clear sight visibility from thirty (30) inches to seventy-two inches, tree trunks excluded. Measurement shall be made from top of root ball planted at proper elevation.
6. Guying/staking practices shall not permit nails, screws, wires, etc., to penetrate outer surfaces of trees, palms or other plant material. Trees, palms and plant material rejected due to this practice shall be replaced with the inspector on site.
7. Burlap material, wire cages, plastic/canvas straps, etc., must be cut and removed for the top one-half (1/2) depth of the root ball. Trees and shrubs grown in grow bags or grow bag type material must have such material REMOVED ENTIRELY prior to planting the tree or shrub.
8. All plant material shall be free of pests, insects, disease, weeds, etc.
9. All required landscape material shall be installed using a planting soil mix comprised of a type appropriate to the individual proposed plant material and the native soil found on the site.
10. All plant material shall be planted at the proper depth, as originally grown and/or so the top of the root ball is flush or slightly above finished grade immediately after planting. All trees should provide trunk taper when properly planted at the correct planting depth.
11. All plant material shall be watered in at time of planting to eliminate air pockets in the root zone area.
12. Upon completion of work, the site shall be cleared of all debris, superfluous materials, and equipment caused by this permit to the satisfaction of the inspector.
    Refer to Coconut Creek Fire Equipment Clear Zone diagram to maintain a safe zone fronting fire hydrants.
    Do not plant trees, shrubs or groundcover within Electric Meter Clear Zone. Provide a safe zone as described by the Electrical Inspector.
    All landscaped areas shall be provided with an underground fully automatic irrigation system using pop-up sprinklers. System shall provide 100% coverage with 50% overlap (minimum) using rust free water, except preserved areas remaining in natural state. A rain sensor device or switch shall be installed that will override the irrigation system when adequate rainfall has occurred. Water shall not be directed and/or provided onto impervious surfaces and/or be designed or installed to throw water over an impervious surface such as a sidewalk, etc. Hours of operation for all irrigation systems shall be limited to 5:00 p.m. to 8:00 a.m. only or as may be further restricted by South Florida Water Management District or other jurisdictional agency.
13. Irrigation permits and plans shall be submitted for approval at time of building permits.
17. All non-single family or duplex irrigation systems other than City water systems shall require a South Florida Water Management District water use permit prior to issuance of an irrigation permit and installation of the irrigation system as required.
18. All site amenities to include site street lights, landscape common open space, irrigation common open space, buffers, berms, landscape entry features, etc. leading up to and including the model center and/or first certificate of occupancy must be completed and functional prior to issuance of the first requested certificate of occupancy.
19. The height of all required, designed and installed berms shall be from the highest adjacent point whether it is the sidewalk, parking area, vehicular use area, surrounding ground, etc. Where a berm abuts a sidewalk, there shall be a one (1) foot level sod area adjacent to the sidewalk prior to the start of incline for the berm.
20. An inspection is required prior to the backfilling of trees/palms in all parking medians and islands.

NOTES

SOD TO BE ST. AUGUSTINE 'FLORATAM', CONTRACTOR TO DETERMINE QUANTITY.

ALL PLANTS TO BE FLORIDA NO. 1 OR BETTER PER FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS.

ALL SOD AND LANDSCAPE TO RECEIVE 100% COVERAGE WITH 100% OVERLAP FROM AN AUTOMATIC IRRIGATION SYSTEM USING AN APPROVED WATER SOURCE.

BUBBLERS TO BE PROVIDED FOR NEW AND RELOCATED TREES AND PALMS.

CONTRACTOR IS RESPONSIBLE FOR ALL CONDITIONS AND LANDSCAPE SPECIFICATION ATTACHED TO THIS PLAN AND PLANT LIST. PLAN AND SPECIFICATIONS SHALL BE CONSIDERED CONTRACT DOCUMENTS.

PRE-CONSTRUCTION MEETING IS REQUIRED BEFORE ANY PLANT MATERIAL IS INSTALLED ON SITE.

ALL ROAD ROCK, CONCRETE, ASPHALT AND OTHER NON-NATURAL MATERIAL BE REMOVED AND BE REPLACED WITH PLANTING SOIL PRIOR TO LANDSCAPE INSTALLATION.

NO TRENCHING ALLOWED WITHIN ROOT ZONES OF EXISTING TREES.

PLANT LIST

		SHRUBS & GROUNDCOVERS	
QTY	** N	KEY	PLANT NAME
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178	**	CLU	*Clusia guttifera* SMALL LEAF CLUSIA
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		SOD	ST. AUGUSTINE 'FLORATUM'

N DENOTES NATIVE SPECIES
** DENOTES HIGH DROUGHT TOLERANT SPECIES
* DENOTES MODERATE DROUGHT TOLERANT SPECI

PLANT LIST

		TREES	
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12	**N	CE	*Conocarpus erectus* GREEN BUTTONWOOD
13	**N	BS	*Bursera Simaruba* GUMBO LIMBO
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3	**	ED	*Eleocarpus decipiens* JAPANESE BLUEBERRY
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8	**N	MF	*Myrcianthes fragrens* SIMPSON STOPPER
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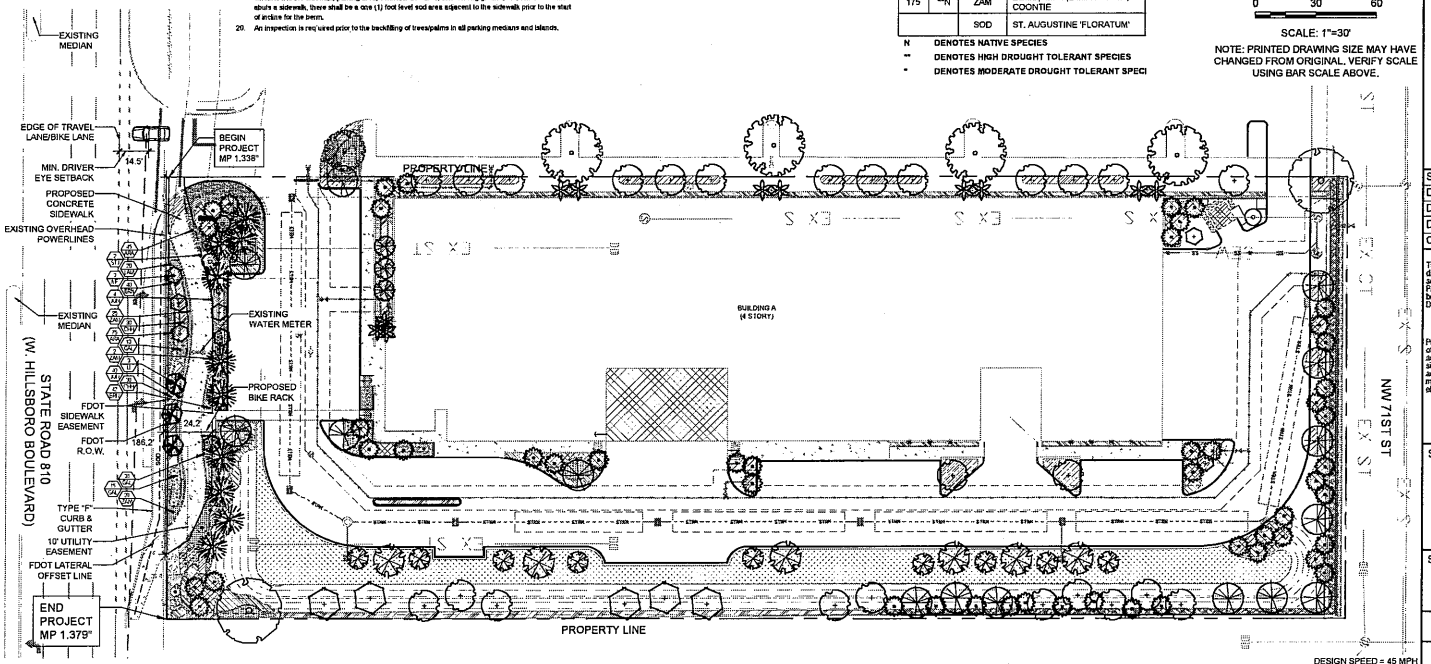
9	**N	TD2	*Taxodium distichum* BALD CYPRESS
-	**	TH	*Tabebuia heterophylla* PINK TRUMPET
8	**	PE	*Ptychosperma elegans* SOLITAIRE PALM
1	**	PE3	*Ptychosperma elegans* SOLITAIRE PALM
51	**N	SP	*Sabal palmetto* CABBAGE PALM / SABAL PALM



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GRAPHIC SCALE
0 30 60
SCALE: 1"=30'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

FDOT LANDSCAPE PERMIT NO. 2023-L-491-00007

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Orange County
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State of Florida Certificate of Authorization Number - 7928

BID / CONTRACT NO. :

REVISIONS

NO.	DESCRIPTION	DATE

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LEDER
4161 HILLSBORO STORAGE

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REGISTERED LANDSCAPE ARCHITECT
MICHAEL J. PHILLIPS
LA 0001540
STATE OF FLORIDA

MICHAEL J. PHILLIPS, R.L.A.
FLORIDA REG. NO. LA0001540
(FOR THE FIRM)

SHEET TITLE
LANDSCAPE PLAN

SHEET NUMBER
LP-101

PROJECT NO. 09675.01

Document #1961151-v1-4161 Hillsboro LLC - Land Development Applications\CAD\Drawings\01_LDP\LP-101.dwg, Model, Layout: Layout1, 7/6/2023 1:51:05 PM, Kevin Gant, DWG To PDF.pc3, ARCH D (24.00 x 36.00 Inches)

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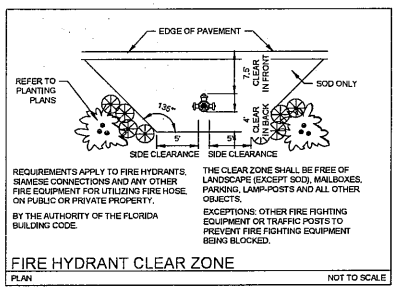


REQUIREMENTS APPLY TO FIRE HYDRANTS, SIAMESE CONNECTIONS AND ANY OTHER FIRE EQUIPMENT FOR UTILIZING FIRE HOSE, ON PUBLIC OR PRIVATE PROPERTY.

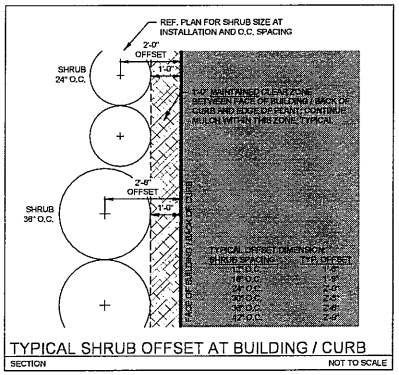
BY THE AUTHORITY OF THE FLORIDA BUILDING CODE.

THE CLEAR ZONE SHALL BE FREE OF LANDSCAPE (EXCEPT SOD), MAILBOXES, PARKING, LAMP-POSTS AND ALL OTHER OBJECTS.

EXCEPTIONS: OTHER FIRE FIGHTING EQUIPMENT OR TRAFFIC POSTS TO PREVENT FIRE FIGHTING EQUIPMENT BEING BLOCKED.

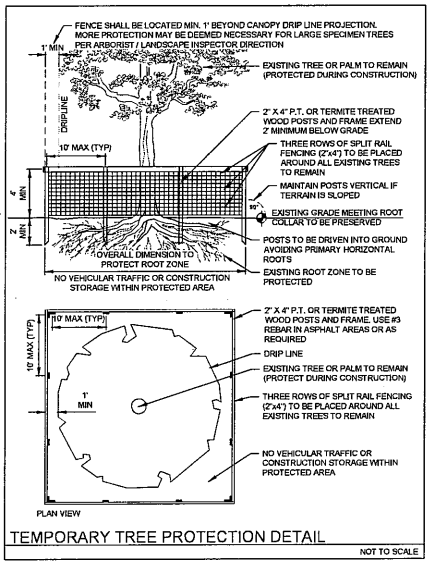
FIRE HYDRANT CLEAR ZONE

PLAN — NOT TO SCALE



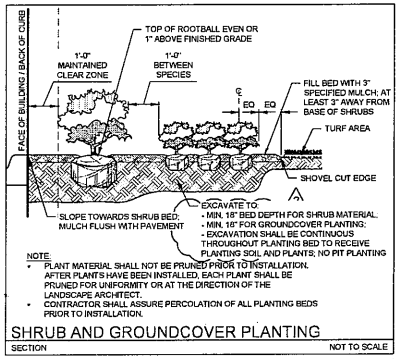
TYPICAL SHRUB OFFSET AT BUILDING / CURB

SECTION — NOT TO SCALE



TEMPORARY TREE PROTECTION DETAIL

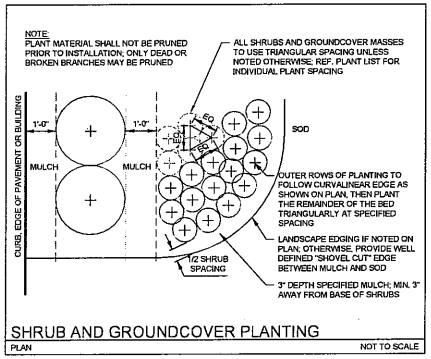
NOT TO SCALE



NOTE:
- PLANT MATERIAL SHALL NOT BE PRUNED PRIOR TO INSTALLATION. AFTER PLANTS HAVE BEEN INSTALLED, EACH PLANT SHALL BE PRUNED FOR UNIFORMITY OR AT THE DIRECTION OF THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING BEDS PRIOR TO INSTALLATION.

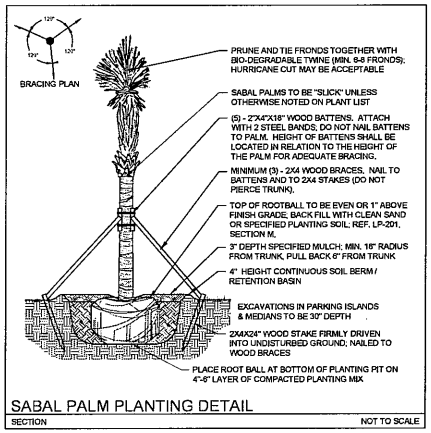
SHRUB AND GROUNDCOVER PLANTING

SECTION — NOT TO SCALE



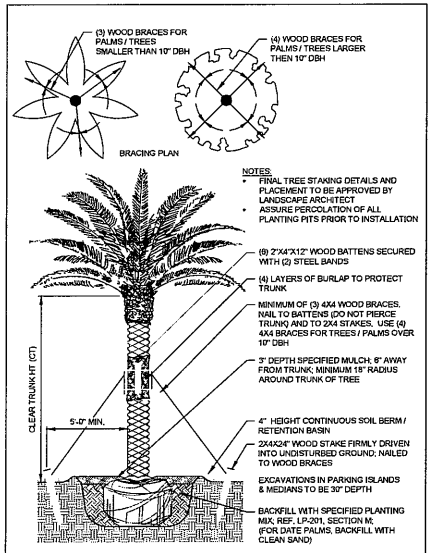
SHRUB AND GROUNDCOVER PLANTING

PLAN — NOT TO SCALE



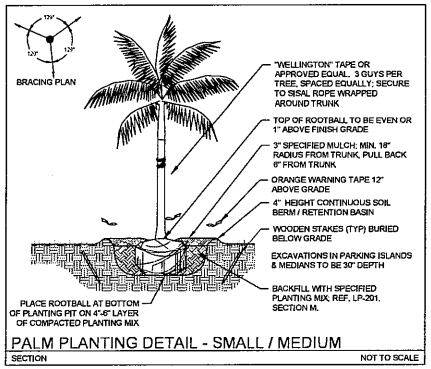
SABAL PALM PLANTING DETAIL

SECTION — NOT TO SCALE



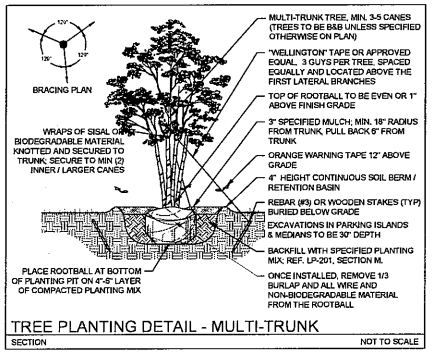
LARGE TREE / PALM PLANTING DETAIL

SECTION — NOT TO SCALE



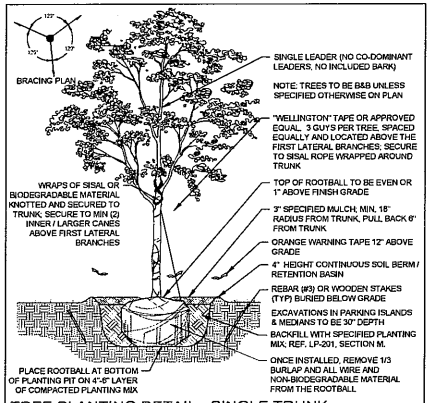
PALM PLANTING DETAIL - SMALL / MEDIUM

SECTION — NOT TO SCALE



TREE PLANTING DETAIL - MULTI-TRUNK

SECTION — NOT TO SCALE



TREE PLANTING DETAIL - SINGLE TRUNK

SECTION — NOT TO SCALE

DESIGN SPEED = 45 MPH

FDOT LANDSCAPE PERMIT NO. 2023-L-491-00007

KEITH
Corporate Office
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400

Miami-Dade County
2160 NW 82 Avenue
Doral, Florida 33122

Palm Beach County
120 N Federal Highway, Suite 208
Lake Worth, Florida 33460

Orange County
2948 E Livingston Street
Orlando, Florida 32803

State of Florida Certificate of Authorization Number - 7928

BID / CONTRACT NO. :

REVISIONS

NO.	DESCRIPTION	DATE

PRELIMINARY PLAN
NOT FOR CONSTRUCTION
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LEDER
4161 HILLSBORO STORAGE

SCALE:	AS NOTED
DATE ISSUED:	07/06/2023
DRAWN BY:	KG
DESIGNED BY:	MP
CHECKED BY:	MP, KS

This item has been digitally signed and sealed by Michael J. Phillips, on the date below using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

REGISTERED LANDSCAPE ARCHITECT — MICHAEL J. PHILLIPS — LA 0001540 — STATE OF FLORIDA

MICHAEL J. PHILLIPS, FLLA
FLORIDA REG. NO. LA0001540
(FOR THE FIRM)

SHEET TITLE

LANDSCAPE DETAILS

SHEET NUMBER

LP-501

PROJECT NO. 09675.01

Drawings on P:\09675.01-4161 Hillsboro, LLC - Lake Worth\Landscape Architecture\CONSTRUCTION\Revit\09675.01_CENTRAL.rvt, Level Name: LP-501, Plotted by: Mike Phillips at 7/6/2023 2:19pm

Docusign Envelope ID: 1CD66425-BBB3-4A94-84CF-0E9FC84DCF54

FDOT IRRIGATION NOTES:

1. THE IRRIGATION SYSTEM SHALL USE THE LOWEST QUALITY WATER AVAILABLE WHICH ADEQUATELY AND SAFELY MEETS THE WATER NEEDS OF THE SYSTEM. STORM WATER, RECLAIM WATER, OR GREY WATER IRRIGATION SHALL BE USED WHENEVER POSSIBLE.
2. FDOT REQUIRES 24-HOUR EMERGENCY ACCESS TO WATER SOURCE.
3. CONTRACTOR SHALL PROVIDE FDOT DISTRICT OPERATIONS MANAGER WITH A SET OF "AS- BUILT" IRRIGATION PLANS.

IRRIGATION LEGEND

SYMBOL	DESCRIPTION
	HUNTER PGP 6" POP-UP ROTOR HEADS
	HUNTER I40 POP-UP ROTOR HEADS
	HUNTER SPRAY NOZZLES: 15' RADIUS, WITH PRO SPRAY BODY
	HUNTER SPRAY NOZZLES: 12' RADIUS, WITH PRO SPRAY BODY
	HUNTER SPRAY NOZZLES: 10' RADIUS, WITH PRO SPRAY BODY
	HUNTER SPRAY NOZZLES: 8' RADIUS, WITH PRO SPRAY BODY
	HUNTER SIDE SPRAY: SS530, WITH PRO SPRAY BODY
	HUNTER END SPRAY: ES515, WITH PRO SPRAY BODY
	HUNTER MULTI-STREAM BUBBLERS: MSBN SERIES
	HUNTER BUBBLERS: PCN SERIES
	ZONE VALVE: ELECTRONIC, EQUAL TO IRRITROL, SIZE PER PLAN, IN AMETEK OR CARSON 12"X18" VALVE BOX
	AMES BRASS GATE VALVE, SAME SIZE AS MAINLINE, IN 6" SCH 40 PVC COLLAR EXTENSION AND VALVE BOX
	HUNTER MODULAR IRRIGATION CONTROLLER EQUAL TO PRO-C SERIES WITH SOLAR SYNC, TO BE LOCATED PER OWNER'S PREFERENCE
	SLEEVES: SCH 40 PVC OR RATED EQUAL CLASS SLEEVES TO BE MIN. 24" AND MAX. 36" DEEP
	MAIN LINE: SCH 40 PVC WITH SCH 80 PVS FITTINGS THRUST BLOCKS AT STRESS POINTS, SITE PER PLAN
	LATERAL PIPING: PVC CLASS 200 PVC FITTINGS AND GLUE JOINTS, PER SPECIFICATIONS

NOTES:

1. ALL SOD AND LANDSCAPE TO RECEIVE 100% COVERAGE WITH 100% OVERLAP FROM AN AUTOMATIC IRRIGATION SYSTEM USING AN APPROVED WATER SOURCE.
2. A RAIN SENSOR MUST BE INSTALLED TO OVER-RIDE THE CONTROLLER.
3. BUBBLERS TO BE PROVIDED FOR NEW AND RELOCATED TREES AND PALMS.
4. CONTRACTOR IS RESPONSIBLE FOR ALL CONDITIONS AND IRRIGATION SPECIFICATION ATTACHED TO THIS PLAN. PLAN AND SPECIFICATIONS SHALL BE CONSIDERED CONTRACT DOCUMENTS.
5. INVESTIGATE TO DETERMINE AND VERIFY THE LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATION.
6. REFER TO SHEET LI-501 FOR ADDITIONAL IRRIGATION SPECIFICATIONS AND DETAILS.

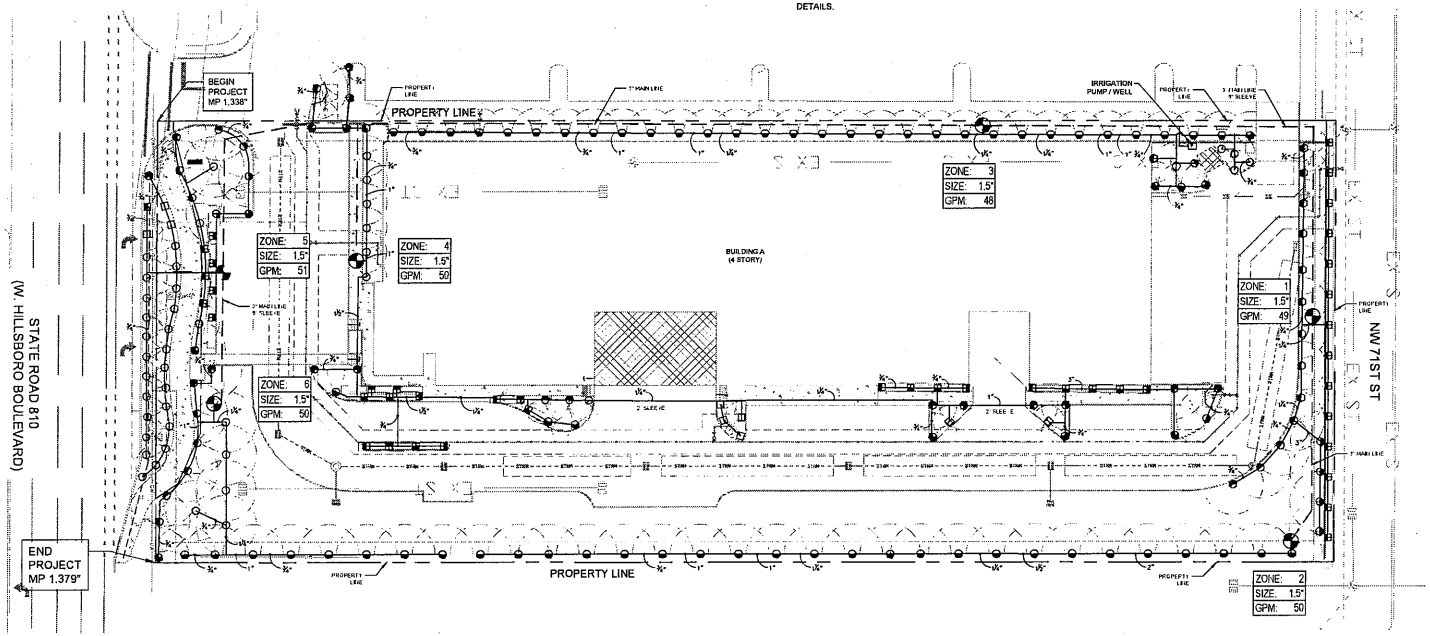
N

GRAPHIC SCALE

0 30 60

SCALE: 1"=30'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.



DESIGN SPEED = 45 MPH

FDOT LANDSCAPE PERMIT NO. 2023-L-491-00007

Sunshine 811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

KEITH
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BID / CONTRACT NO. :

REVISIONS

NO.	DESCRIPTION	DATE

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LEDER
4161 HILLSBORO STORAGE

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CHECKED BY:	MP, KS

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REGISTERED LANDSCAPE ARCHITECT MICHAEL J. PHILLIPS LA 0001540 STATE OF FLORIDA

MICHAEL J. PHILLIPS, R.L.A.
FLORIDA REG. NO. LA0001540
(FOR THE FIRM)

SHEET TITLE

IRRIGATION PLAN

SHEET NUMBER

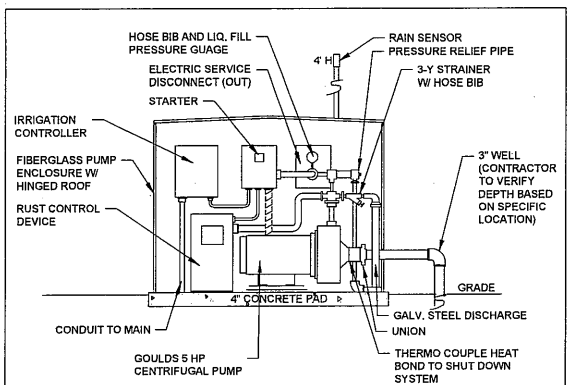
LI-101

PROJECT NO. 09675.01

.\Engineering\Cadd\XREF\Titleblock\09675.01-G-TBLK 22X34.dwg

IRRIGATION NOTES

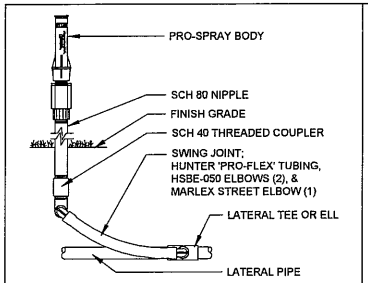
1. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL REQUIRED TO MAKE THE SYSTEM FUNCTION PROPERLY. ALL IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ALSO STATE AND/OR LOCAL CODES.
2. IRRIGATION PLANS ARE SCHEMATIC AND DRAWN FOR GRAPHIC CLARITY. ALL PIPING BELOW PAVEMENT SHALL BE SLEEVED. LAYOUT OF IRRIGATION SYSTEM SHALL BE COORDINATED WITH CORRESPONDING LANDSCAPE PLAN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL UNDERGROUND UTILITY PROVIDERS TO VERIFY LOCATIONS. THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITE PRIOR TO INSTALLATION AND BECOME FAMILIAR WITH EXISTING CONDITIONS.
4. VALVE LOCATIONS ARE SCHEMATIC ONLY AND WILL BE ADJUSTED FOR SITE CONDITIONS. EACH VALVE SHALL BE INSTALLED IN A AMETEK OR CARSON VALVE BOX. THE FLOW ADJUSTMENT FEATURE WILL BE USED TO BALANCE PRESSURE THROUGHOUT THE SYSTEM.
5. PIPING SHALL BE SIZED TO MINIMIZE FRICTION LOSS AND MAINTAIN FLOW VELOCITY BELOW 5 FPS.
6. THE IRRIGATION CONTROLLER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PROPER GROUNDING EQUIPMENT AND SURGE PROTECTION SHALL BE PROVIDED. A RAIN SENSOR SHALL BE INSTALLED TO OVER-RIDE THE CONTROLLER.
7. ALL HEADS ON RISERS SHALL BE SET AT THE HEIGHT OF ADJACENT PLANT MATERIAL.
8. SPRINKLER LOCATIONS ADJACENT TO PAVEMENT, STRUCTURES, FENCES, ETC. SHALL BE OFFSET AS FOLLOWS: 12" MIN FOR POP-UP MIST HEADS, 18" FOR SHRUB RISERS, 18" FOR ROTOR HEADS, AND TYPICALLY 5 FEET FOR ROTORS ALONG UNCURBED ROADWAYS.
9. ALL SLEEVING SHALL BE SCH 40 PVC TO SIZE INDICATED ON PLAN, OR IF NOT INDICATED, A MIN. OF 2 PIPE SIZES LARGER THAN SUPPLY LINE CONTAINED. ALL SLEEVES SHALL BE INSTALLED A MIN. OF 24" BELOW FINISH GRADE.
10. CONTROL WIRES SHALL BE UL APPROVED PE IRRIGATION CONTROL WIRE. USE 14 GAGE CONTROL WIRE AND 12 GAGE GROUND WIRE. WIRE SHALL BE BUNDLED AND ATTACHED TO THE MAIN LINE IN TRENCH OR THROUGH WIRE SLEEVES AT PAVEMENT CROSSINGS 24" BELOW FIN. GRADE. ALL SPLICES SHALL BE MADE WITH WATERPROOF DIRECT-BURIAL SPLICE KITS AND CONTAINED IN VALVE BOXES. TWO EXTRA CONTROL WIRES SHALL BE INSTALLED TO THE FURTHEST VALVES IN EACH DIRECTION FROM THE CONTROLLER.
11. PIPING IN NARROW PLANTING AREAS, PARKING ISLANDS AND PLANTERS SHALL BE SET TO ONE SIDE TO ALLOW ROOM FOR ROOT BALLS. PIPE AS INDICATED ON PLAN IS SCHEMATIC AND SHOULD BE ADJUSTED FOR FIELD CONDITIONS.
12. ALL GLUE JOINTS SHALL BE CLEANED, SANDED, AND TREATED WITH A COLORED HIGH ETCH PRIMER AND JOINED USING A SOLVENT CONFORMING WITH ASTM D2564.
13. SYSTEM PIPE SIZE 3/4" SHALL BE CLASS 200 PVC; SYSTEM PIPE SIZE 1" OR GREATER SHALL BE CLASS 160 PVC. SYSTEM MAIN WILL BE SCH. 40 PVC TO SIZE INDICATED ON PLAN. ALL FITTINGS WILL BE SOLVENT WELD SCH 40 PVC. MAIN LINE SHALL HAVE 24" MINIMUM COVER; ALL OTHER PIPING WILL HAVE 12" MIN. COVER. ALL BACKFILL FOR PIPE TRENCHES SHALL BE CLEAN AND FREE OF FOREIGN DEBRIS AND SHARP OBJECTS; BACKFILLED TRENCHES SHALL BE PROPERLY COMPACTED. ALL MAIN LINES WILL BE INSTALLED A MIN. OF 3' FROM ANY TREE OR PALM.
14. WATERING TIME PER STATION WILL BE DETERMINED IN THE FIELD AND PER LOCAL REQUIREMENTS. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PRECIPITATION RATES OF SPRINKLERS SPECIFIED.
15. IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE WITH 100% OVERLAP MIN. PROVIDE BUBBLERS FOR ALL NEW AND RELOCATED TREES AND PALMS.
16. RUST CONTROL SYSTEM TO BE INSTALLED WITH PUMP STATION (IF FROM WELL).
17. THE IRRIGATION SYSTEM IN THE RIGHT-OF-WAY IS TO INCORPORATE LOW TRAJECTORY SPRAY HEADS TO MINIMIZE OVERSPRAY.
18. AS-BUILT DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND GIVEN TO THE OWNER PRIOR TO FINAL ACCEPTANCE.



NOTE: VERIFY ELECTRIC SUPPLY/PHASE/VOLTAGE & PROVIDE SURGE PROTECTION.

PUMP STATION-WELL

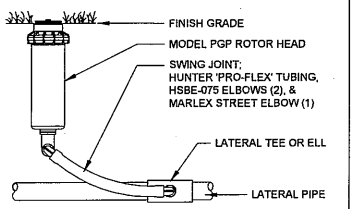
IRRIGATION DETAIL — NOT TO SCALE



SPRAY HEAD ON RISER

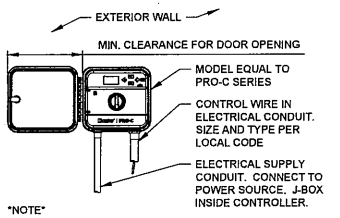
IRRIGATION DETAIL — NOT TO SCALE

*WHEN USING LARGER GPM NOZZLES, BEWARE OF HIGH FRICTION LOSS IN SWING JOINTS.



PGP ROTOR HEAD

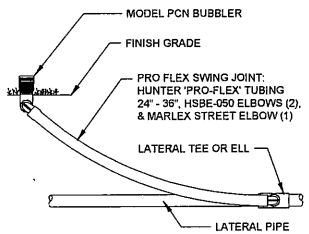
IRRIGATION DETAIL — NOT TO SCALE



NOTE
SPECIFY 4,7,10,13,16 STATION MODEL CONTROLLER. MOUNT CONTROLLER WITH LCD SCREEN AT EYE LEVEL. CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 VAC SOURCE.

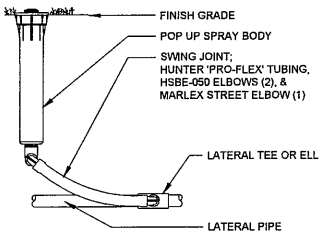
PRO-C CONTROLLER

IRRIGATION DETAIL — NOT TO SCALE



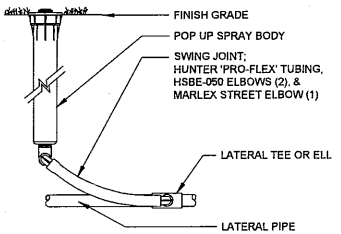
PCN BUBBLER

IRRIGATION DETAIL — NOT TO SCALE



6" POP-UP SPRAY HEAD

IRRIGATION DETAIL — NOT TO SCALE



12" POP-UP SPRAY HEAD

IRRIGATION DETAIL — NOT TO SCALE

DESIGN SPEED = 45 MPH

FDOT LANDSCAPE PERMIT NO. 2023-L-491-00007

KEITH
Corporate Office
301 East Atlantic Boulevard
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LEDER
4161 HILLSBORO STORAGE

SCALE:	AS NOTED
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DESIGNED BY:	MP
CHECKED BY:	MP, KS

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REGISTERED LANDSCAPE ARCHITECT MICHAEL J. PHILLIPS LA 0001540 STATE OF FLORIDA

MICHAEL J. PHILLIPS, R.L.A.
FLORIDA REG. NO. LA0001540
(FOR THE FIRM)

SHEET TITLE
IRRIGATION NOTES / DETAILS

SHEET NUMBER
LI-501

PROJECT NO. 09675.01

Docusign Envelope ID: 1CD66425-BBB3-4A94-84CF-0E9FC84DCF54

Docusign Envelope ID: 1CD66425-BBB3-4A94-84CF-0E9FC84DCF54

SECTION: **86120000**
COUNTY: **BROWARD**
STATE RD: **810**
PERMIT: **2023-L-491-00007**

EXHIBIT C

RESOLUTION

This Exhibit forms an integral part of the LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT between the DEPARTMENT and the AGENCY.

Please see attached

(To be provided by the Agency)

Docusign Envelope ID: 1CD66425-BBB3-4A94-84CF-0E9FC84DCF54

RESOLUTION NO. 2025-002

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF COCONUT CREEK, FLORIDA, AUTHORIZING THE CITY MANAGER, OR DESIGNEE, TO EXECUTE AMENDMENT NUMBER TEN (10) TO THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DISTRICT FOUR LANDSCAPE INCLUSIVE MAINTENANCE MEMORANDUM OF AGREEMENT FOR THE PURPOSE OF MAINTAINING SIDEWALKS, LANDSCAPING, AND OTHER IMPROVEMENTS WITHIN THE RIGHT-OF-WAY OF WEST HILLSBORO BOULEVARD (STATE ROAD 810) RELATED TO THE LEDER SELF-STORAGE DEVELOPMENT PROJECT; PROVIDING FOR SEVERABILITY; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, on October 27, 2022, 4161 Hillsboro, LLC received Site Plan approval from the City for the design and construction of the self-storage facility located at 4161 West Hillsboro Boulevard; and

WHEREAS, a portion of the self-storage development project improvements, including, but not limited to, sidewalks, landscaping, and irrigation, will be constructed within the Florida Department of Transportation (FDOT) property and/or right-of-way; and

WHEREAS, the City of Coconut Creek recognizes the need to amend an existing FDOT District Four Landscape Inclusive Maintenance Memorandum of Agreement (MMOA), designating and setting forth maintenance responsibilities related to these improvements; and

WHEREAS, it shall be the responsibility of the City of Coconut Creek to maintain or coordinate the maintenance of the improvements after the project's completion; and

WHEREAS, said maintenance responsibilities will be reassigned to 4161 Hillsboro, LLC by separate resolution and agreement.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF COCONUT CREEK, FLORIDA:

Docusign Envelope ID: 1CD66425-BBB3-4A94-84CF-0E9FC84DCF54

Section 1: That the foregoing "WHEREAS" clauses are hereby ratified and confirmed as being true and correct and are hereby made a specific part of this resolution. All exhibits attached hereto are incorporated herein and made a specific part of this resolution.

Section 2: That the City Commission hereby accepts the future budgeting and funding resources projected to be necessary for maintenance contingency and supports the mobility project as it relates to the Leder Self-Storage Development Project.

Section 3: That City Manager, or designee, is hereby authorized to execute Amendment Number Ten (10) to the FDOT District Four Landscape Inclusive Maintenance Memorandum of Agreement between FDOT and the City, designating maintenance responsibilities for the Hillsboro Boulevard right-of-way improvements related to the Leder Self-Storage Development Project.

Section 4: That if any clause, section, other part or application of this resolution is held by any court of competent jurisdiction to be unconstitutional or invalid, in part or in application, it shall not affect the validity of the remaining portion or applications of this resolution.

Section 5: That this resolution shall be in full force and effect immediately upon its adoption.

Adopted this 23rd **day of** January **, 2025.**

Sandra L. Welch, Mayor

Attest:

Joseph J. Kavanagh, City Clerk

Welch	Aye
Railey	Aye
Rydell	Aye
Brodie	Aye
Wasserman	Aye

SECTION: **86039000**
COUNTY: **BROWARD**
STATE RD: **814**
PERMIT: **2024-L-491-00013**

AMENDMENT NUMBER ELEVEN (11) TO
FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 4
LANDSCAPE INCLUSIVE MAINTENANCE MEMORANDUM OF AGREEMENT

THIS AMENDMENT Number Eleven (11) to the Original Agreement dated May 27, 2009, made and entered into this _____ day of _____ 2025 by and between the **DEPARTMENT OF TRANSPORTATION** hereinafter called the **DEPARTMENT** and the **CITY OF COCONUT CREEK**, a municipal subdivision of the State of Florida, hereinafter called the **AGENCY**.

W I T N E S S E T H

WHEREAS, the parties entered into the Landscape Inclusive Maintenance Memorandum of Agreement dated, May 27, 2009 ("Original Agreement") for the purpose of the AGENCY maintaining landscape improvements on various state roads within the AGENCY'S jurisdiction, including **State Road 814 (W. Atlantic Boulevard**); and,

WHEREAS, the DEPARTMENT and the AGENCY have agreed to add additional landscape on **State Road 814 (W. Atlantic Boulevard) from M.P. 0.769 to M.P. 1.098,** in accordance with the Original Agreement; and,

WHEREAS, the parties hereto mutually recognize the need for entering into this Amendment, designating and setting forth the responsibilities of each party for the Additional Improvements; and,

WHEREAS, the AGENCY by Resolution No._____ dated_____, 2025 attached hereto as **Exhibit "C"** 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:

1. The parties herein agree to modify the Original Agreement accordingly:

2. Pursuant to Page 7, Section 8 of the Original Agreement, the DEPARTMENT will allow an Adjacent Property Owner to construct additional landscape improvements or to modify an improvement located as indicated in **Exhibit "A"** of this Amendment, State Road 814 (W. Atlantic Boulevard) from M.P. 0.796 to 1.098.

3. The Additional Improvements, more fully described in the plans attached to this Amendment as **Exhibit "B"** and incorporated into the Original Agreement**,** will include the following non-standard items: groundcover plants, shrubs, and irrigation system, within the FDOT right of way. The Additional Improvements shall be installed in accordance with the aforementioned plans**.**

4. The AGENCY agrees to maintain the Additional Improvements in accordance with Part I of Exhibit "E" Maintenance Plan for Landscape Improvements, of the Original Agreement, and in compliance with:

II. SPECIFIC PROJECT SITE MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS

1. Green Buttonwood and Silver Buttonwood trees are intended to be maintained with 8.5' clear trunk vertical clearance over sidewalks.

2. Remove suckering growth from base and clear trunk areas for single trunked trees on a quarterly basis.

3. To maintain the intended appearance of all groundcover or turf grass, apply the latest fertilizer recommended by the University of Florida IFAS Extension per the manufacturer's specifications.

4. Groundcover and shrub horizontal growth shall be maintained to prevent foliage from growing beyond the limits of the planting areas shown on the plan. Maintain a 4" setback from the foliage to the edge of curb, pavement, sidewalk and/or other hardscape improvements.

5. Maintain the vertical height of:
    - Green Island Ficus at 18".
    - St. Augustine Grass mature height trim down to 4" on an as-needed basis.

6. Maintain full ground coverage for groundcover at all times.

7. Evaluate plant material on a monthly basis for pests, diseases, drought stress or general decline. If required, follow the integrated pest management program established by the Agency to ensure healthy plants.

8. Inspect the irrigation system performance on a monthly basis to ensure the system is providing 100% coverage, does not have sections of low pressure, heads and valves are clean and clear of debris and any damaged irrigation components (i.e., spray nozzles, spray heads, valve boxes, etc.) are repaired or replaced.

SECTION: **86039000**
COUNTY: **BROWARD**
STATE RD: **814**
PERMIT: **2024-L-491-00013**

LIST OF EXHIBITS FOR AMENDMENT #11:

Exhibit A - Landscape Improvements Maintenance Boundaries
Exhibit B - Landscape Improvement Plans
Exhibit C - Resolution

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

SECTION: **86039000**
COUNTY: **BROWARD**
STATE RD: **814**
PERMIT: **2024-L-491-00013**

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

CITY OF COCONUT CREEK

By: _____ Date: _____
Sheila Rose, City Manager

Attest:

_____ (SEAL)
Joseph J. Kavanagh, City Clerk

Legal Review:

_____
Terrill C. Pyburn, City Attorney

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

By : Date: _____

_____
John P. Krane, P.E., (or designee)
Director of Transportation Development

(SEAL)

_____
Alia Channel, (or designee)
Executive Secretary

Legal Review:

_____
Pamela G. Eidelberg, (or designee)
Office of the General Counsel, District 4

SECTION: **86039000**
COUNTY: **BROWARD**
STATE RD: **814**
PERMIT: **2024-L-491-00013**

EXHIBIT A

LANDSCAPE MAINTENANCE BOUNDARIES

I. ORIGINAL LIMITS OF INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT FOR State Road 814 (ATLANTIC BOULEVARD):

M.P. 0.753 (East Hemingway Court) to M.P. 1.715 (State Road 91)

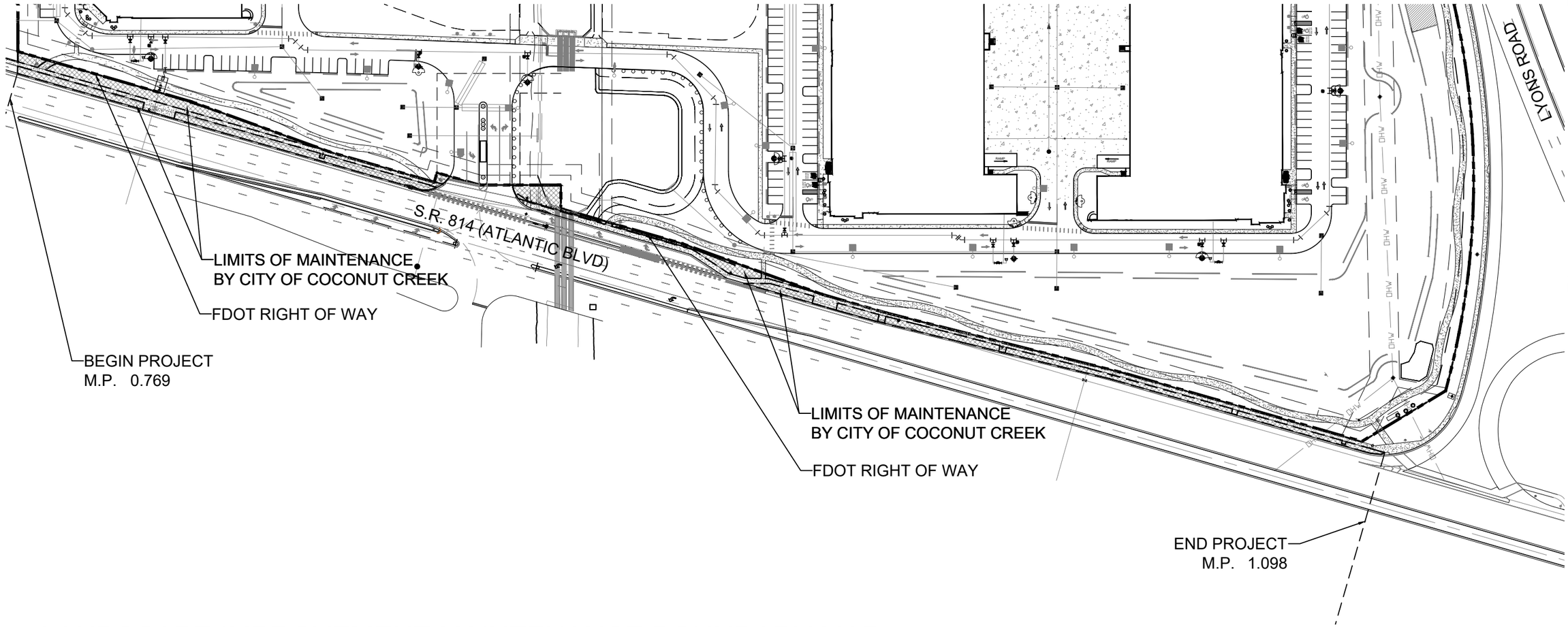
II. LIMITS OF LANDSCAPE IMPROVEMENTS FOR AMENDMENT #11:

State Road 814 / W. Atlantic Boulevard from M.P. 0.769 to M.P. 1.098

III. AMENDMENT #11 MAINTENANCE BOUNDARY MAP:

*Please See Attached

**All other limits of the Original Agreement and Amendments shall apply.*



LANDSCAPE IMPROVEMENT MAINTENANCE BOUNDARY MAP

NORTH

Scale: NTS

CITY OF COCONUT CREEK
FDOT PERMIT NUMBER NO. 2024-L-491-00013
STATE ROAD 814
ROAD ID: 86039000
07/30/2025

LIMITS OF MAINTENANCE BY
CITY OF COCONUT CREEK

WITKIN HULTS + PARTNERS
307 south 21st avenue hollywood, florida
phone: 954.414.1585 facsimile: 954.923.3689
www.witkindesign.com

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Project:
GREYSTAR COCOMAR
COCONUT CREEK, FL
FDOT S.R. 814 LANDSCAPE MAINTENANCE BOUNDARY MAP

Revisions: Date: By:

Seal:

Lic. # LA0000889
Member: A.S.L.A.

Drawing: Landscape Maintenance Boundary Map
Date: 08/14/2024
Scale: See Left
Drawn by: AR
Sheet No.:

EXHIBIT-1
Cad Id.: 2022-059

SECTION: **86039000**
COUNTY: **BROWARD**
STATE RD: **814**
PERMIT: **2024-L-491-00013**

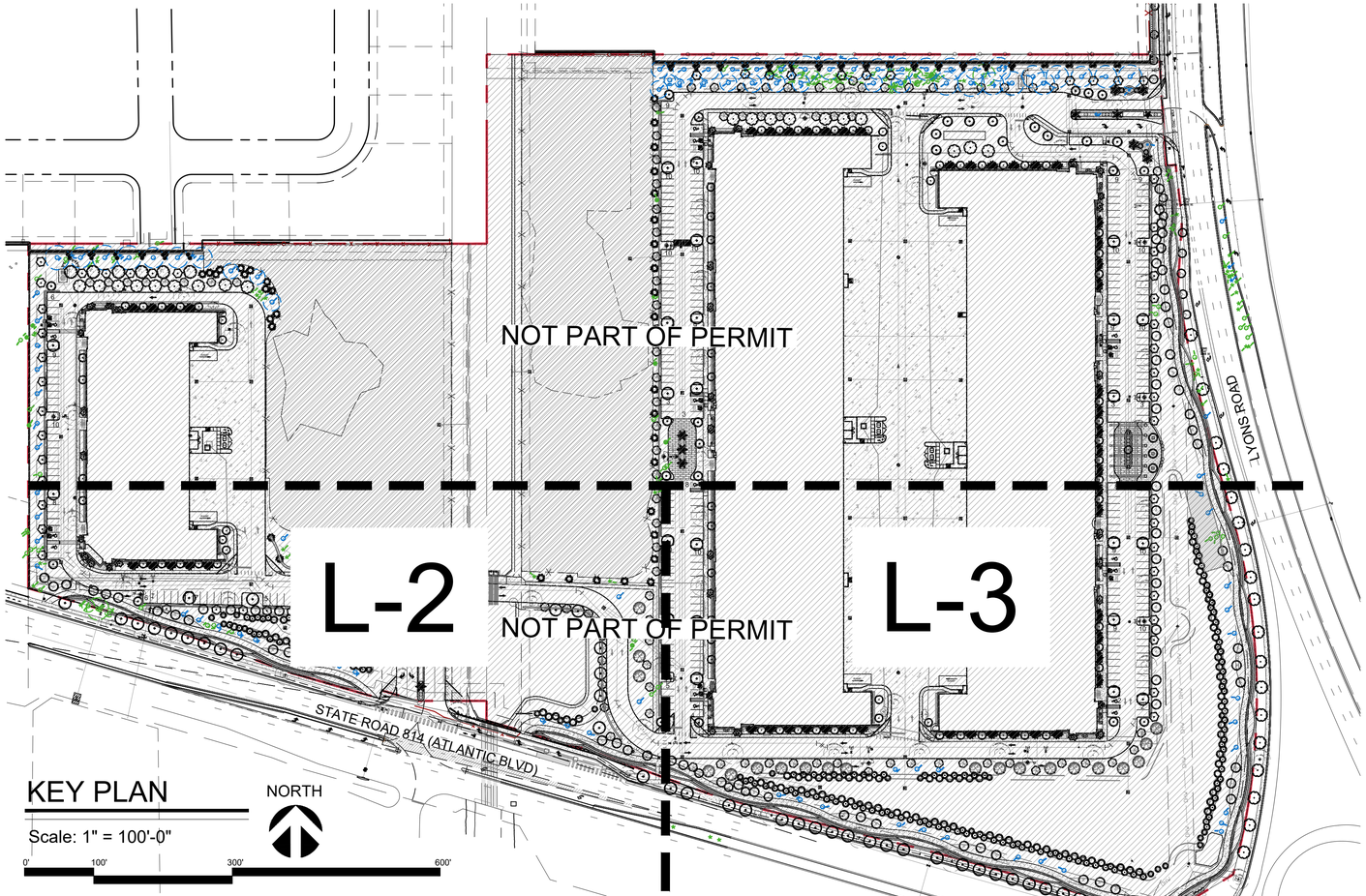
EXHIBIT B

LANDSCAPE IMPROVEMENT PLANS

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

Please see attached plans prepared by: Andrew Witkin, PLA
Witkin Hults & Partners

Date: September 8, 2025



KEY PLAN

Scale: 1" = 100'-0"

NORTH

0' 100' 300' 600'

SHEET INDEX:

L-1 INDEX
L-2 ROW LANDSCAPE PLAN
L-3 ROW LANDSCAPE PLAN
L-4 ROW LANDSCAPE EXHIBIT
L-5 LANDSCAPE DETAILS
L-6 LANDSCAPE DETAILS

Tree Mitigation Chart			
Mitigation Type	**Credit Obtained**	**Quantity**	**Total**
Category 1	300	363	108,900.00
Category 2	150	321	48,150.00
Category 3	100	100	8,300.00
Category 4	50	270	13,500.00
	Total Credit Obtained		**180,550.00**
	Square Footage Removed:		**140,651.55**
	Square Footage Removed [with Addditional 50% Canopy]:		**210,977.32 S.F.**

LANDSCAPE LIST

TREES AND PALMS

SYMBOL	QUAN.	PROPOSED MATERIAL	DESCRIPTION	%
LO	6	*Quercus virginiana	12' HT. X 5' SPR. 2" CAL.	1%
		LIVE OAK	F.G.	
1 CES	17	*Conocarpus erectus 'sericeus'	12' HT., 8.5' C.T. X 4' SPR. 2" CAL.	2%
		SILVER BUTTONWOOD	F.G.	
SM	21	*Swietenia mahagoni	12' HT. X 2" CAL.	3%
		MAHOGANY	F.G.	
CD	86	*Cocoloba diversiflora	12' HT. X 2" CAL.	11%
		PIGEON PLUM	F.G.	
1 BS	37	*Bursera simaruba	12' HT., 8.5' C.T. X 5' SPR. 2" CAL.	5%
		GUMBO LIMBO	F.G.	
1 CE	65	*Conocarpus erectus	12' HT., 8.5' C.T. X 5' SPR. 2" CAL.	8%
		GREEN BUTTONWOOD	F.G.	
IC	54	*Ilex cassine	12' HT. X 2" CAL.	7%
		DAHOON HOLLY	F.G.	
CO	43	*Chrysophyllum oliviforme	12' HT. X 5' SPR. 2" CAL.	5%
		SATINLEAF	F.G.	
ED	76	Elaeocarpus decipiens	12' HT. X 5' SPR. 2" CAL	10%
		JAPANESE BLUEBERRY	F.G.	
LI	75	Lagerstroemia indica 'Natchez'	12' HT. X 2" CAL.	10%
		WHITE CREPE MYRTLE	F.G.	
TH	23	Tabebuia heterophylla	12' HT. X 5' SPR. 2" CAL.	3%
		PINK TRUMPET TREE	F.G.	
CR	10	*Clusia rosea	12' HT. X 5' SPR. 2" CAL.	1%
		PITCH APPLE	F.G.	
LJ	8	Ligustrum japonicum	8' HT. X 8' SPR. 2" DBH.	1%
		JAPANESE PRIVET	F.G.	
TD	88	*Taxodium distichum	12' HT. X 2" CAL.	11%
		BALD CYPRESS	F.G.	
AR	146	*Acer rubrum	12' HT. X 2" CAL.	19%
		RED MAPLE	F.G.	
AG	29	*Annona glabra	12' HT. X 5' SPR. 2" CAL.	4%
		POND APPLE	F.G.	

PALMS

SYMBOL	QUAN.	PROPOSED MATERIAL	DESCRIPTION	%
RE	19	*Roystonea elata	10' C.T.	7%
		ROYAL PALM	F.G., MATCHED HTS.	
VM	7	Veitchia montgomeryana 'single'	16' O.A. HT.	3%
		SINGLE MONTGOMERY PALM	F.G.	
VM2	28	Veitchia montgomeryana 'double'	14'-16' O.A. HT.	10%
		DOUBLE MONTGOMERY PALM	F.G., STAGGERED.	
SP	105	*Sabal palmetto	20'-24' O.A. HT. STAGGERED	38%
		SABAL PALM	F.G.	
TR	45	*Thrinax radiata	16'-20' O.A. HT. STAGGERED	17%
		FLORIDA THATCH PALM	F.G.	
AM	1	Adonidia merrillii	10' O.A. HT.	1%
		CHRISTMAS PALM	F.G.	
CM	65	Caryota mitis	10'-12' O.A. HT.	24%
		FISHTAIL PALM	25 GAL.	

SHRUBS AND GROUNDCOVERS

SYMBOL	QUAN.	PROPOSED MATERIAL	DESCRIPTION	%
AB	30	Aechmea blanchettiana	36" HT. X 24" SPR.	1%
		BRIGHT YELLOW BROMELIAD	10" POT	
BS1	12	Bougainvillea	36" HT. X 36" SPR.	1%
		BOUGAINILLEA STANDARD	7 GAL.	
CA	5	Crinum augustum 'Queen Emma'	3' O.A. HT.	1%
		PURPLE CRINUM LILY	7 GAL.	
CE	1759	*Conocarpus erectus	24" HT. X 24" SPR. / 24" O.C.	9%
		GREEN BUTTONWOOD	3 GAL.	
CFR	24	Cordyline fruticosa 'Red Sister'	4' O.A. HT. 4PPP	1%
		TI PLANT	3 GAL.	
CG	736	Clusia guttifera	24" HT. X 24" SPR. / 24" O.C.	4%
		SMALL LEAF CLUSIA	3 GAL.	
CI	3112	*Chrysobalanus icaco 'Red Tip'	18" HT. X 18" SPR. / 18" O.C.	16%
		RED TIP COCOPLUM	3 GAL.	
DE	424	Duranta erecta 'Gold Mound'	18" HT. X 18" SPR. / 18" O.C.	2%
		GOLD MOUND DURANTA	3 GAL.	
FM	3833	Ficus microcarpa 'Green Island'	15" HT. X 15" SPR. / 15" O.C.	20%
		GREEN ISLAND FICUS	3 GAL.	
HP	1,444	*Hamelia patens 'Calusa'	24" HT. X 24" SPR. / 24" O.C.	7%
		FIREBUSH	3 GAL.	
IT	102	Ixora taiwanese 'Dwarf'	18" HT. X 18" SPR. / 18" O.C.	1%
		DWARF IXORA	3 GAL.	
JI	22	Jatropha integerrima	6' HT. X 4' SPR.	1%
		JATROPHA TREE	30 GAL. , FULL	
MC	341	*Muhlenbergia capillaris	24" HT. X 24" SPR. / 24" O.C.	2%
		PINK MUHLY GRASS	3 GAL.	
SA	57	Schefflera arboricola	18" HT. X 18" SPR. / 18" O.C.	1%
		GREEN SCHEFFLERA	3 GAL.	
SV	2580	Schefflera arboricola 'Trinette'	18" HT. X 18" SPR. / 18" O.C.	13%
		VARIEGATED SCHEFFLERA	3 GAL.	
TF	3444	*Tripsacum floridana	24" HT. X 24" SPR. / 24" O.C.	17%
		DWARF FAKAHATCHEE GRASS	3 GAL.	
CR2	5	*Clusia rosea	36" HT. X 36" SPR. / 36" O.C.	1%
		PITCH APPLE	7 GAL.	
VO	1198	*Viburnum obovatum	24" HT. X 24" SPR. / 24" O.C.	6%
		WALTER'S VIBURNUM	3 GAL.	
PN	483	*Psychotria nervosa	24" HT. X 24" SPR. / 24" O.C.	2%
		WILD COFFEE	3 GAL.	
CV	10	Codieaum variegatum 'Ms. Icetone'	18" HT. X 18" SPR. / 18" O.C.	1%
		RED - YELLOW CROTON	3 GAL.	
BAHIA	As Required	Paspalum notatum	SOLID EVEN SOD	
		ARGENTINE BAHIA GRASS		
LAWN	As Required	Stenotaphrum secundatum 'Floratam'	SOLID EVEN SOD	
		ST. AUGUSTINE GRASS		

* DENOTES NATIVE SPECIES

GOVERNING STANDARD PLANS:
FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2024-25 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRs) ARE AVAILABLE AT THE FOLLOWING WEBSITE: *https://www.fdot.gov/design/standardplans*

GOVERNING STANDARD SPECIFICATIONS :
FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2024-25 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWINGWEBSITE: *https://www.fdot.gov/programmanagement/implemented/specbooks*

ANY PLANT MATERIAL SUBSTITUTION WITHIN OR IMPACTING THE FDOT RIGHT OF WAY WHETHER REQUESTED BY THE CONTRACTOR, OWNER, LANDSCAPE ARCHITECT OR OTHER WILL NEED TO GET APPROVAL FROM THE FDOT DISTRICT LANDSCAPE ARCHITECT.

OWNERSHIP OF ALL SUITABLE EXCAVATED MATERIALS, AS DETERMINED BY THE DEPARTMENT, SHALL REMAIN IN THE DEPARTMENT UNTIL A FINAL ACCEPTANCE OF THE PERMITTED PROJECT IS FULFILLED. EXCAVATED MATERIALS SHALL BE HAULED BY THE PERMITTEE, AT THEIR COST & EXPENSE FROM THE SITE TO THE BROWARD OPERATIONS CENTER OR STOCKPILED IN THOSE AREAS AS DIRECTED BY THE DEPARTMENT, INCLUDING ASPHALT MILLINGS.

CYPRESS MULCH IS NOT PERMITTED ON THE FDOT RIGHT OF WAY. MULCH PERMITTED TO BE USED ARE HARDWOOD MULCH (CONTAINING NO CYPRESS PRODUCTS), RECYCLED MULCH OR APPROVED EQUAL, CERTIFIED BY THE MULCH AND SOIL COUNCIL (MSC). SUBMIT PROOF OF CERTIFICATION TO THE FDOT DISTRICT OPERATIONS PERMIT LANDSCAPE INSPECTOR UPON INSPECTION.

THE DESIGN SPEED FOR THIS PROJECT IS 45 MPH.

CONTRACTOR SHALL REPAIR ALL DAMAGE DONE TO THE FDOT PROPERTY DURING DEMOLITION, RELOCATION &/OR INSTALLATION ACTIVITIES AT HIS SOLE EXPENSE.

FOR THE PORTION OF LANDSCAPE PLANT MATERIAL THAT WILL BE INSTALLED WITHIN THE FDOT RIGHT OF WAY LANDSCAPE INSTALLATION SHALL COMPLY WITH CURRENT APPLICABLE FDOT MAINTENANCE SPECIFICATION 580. Online Reference: *ssm5800000wd-722-i17992.pdf (windows.net)*

FOR THE PORTION OF LANDSCAPE PLANT MATERIAL THAT WILL BE INSTALLED WITHIN THE FDOT RIGHT OF WAY REFER TO FDOT STANDARD PLANS INDEX 580-001 LANDSCAPE INSTALLATION. Online Reference: https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/design/standardplans/2025/idx/580-001.pdf?sfvrsn=2d6fde85_1

SODDED AREAS WILL BE IN ACCORDANCE WITH STANDARD PLANS INDEX 570-010 AND STANDARD SPECIFICATIONS SECTIONS 162, 570, 981, 982, 983, 987 OF THE DEPARTMENT'S LATEST EDITION OF GOVERNING DESIGN STANDARDS AND STANDARD SPECIFICATIONS. ALL DISTURBED AREAS WILL BE SODDED WITHIN ONE (1) WEEK OF INSTALLATION OF SAID PERMITTED WORK.

Permit No. 2024-L-491-00013

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

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www.witkindesign.com

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Project:
GREYSTAR COCOMAR
COCONUT CREEK, FL
STATE ROAD 814 ROW LANDSCAPE PLAN: INDEX

Revisions:	Date:	By:
1) FDOT Comments	01.20.2025	AR

Seal:

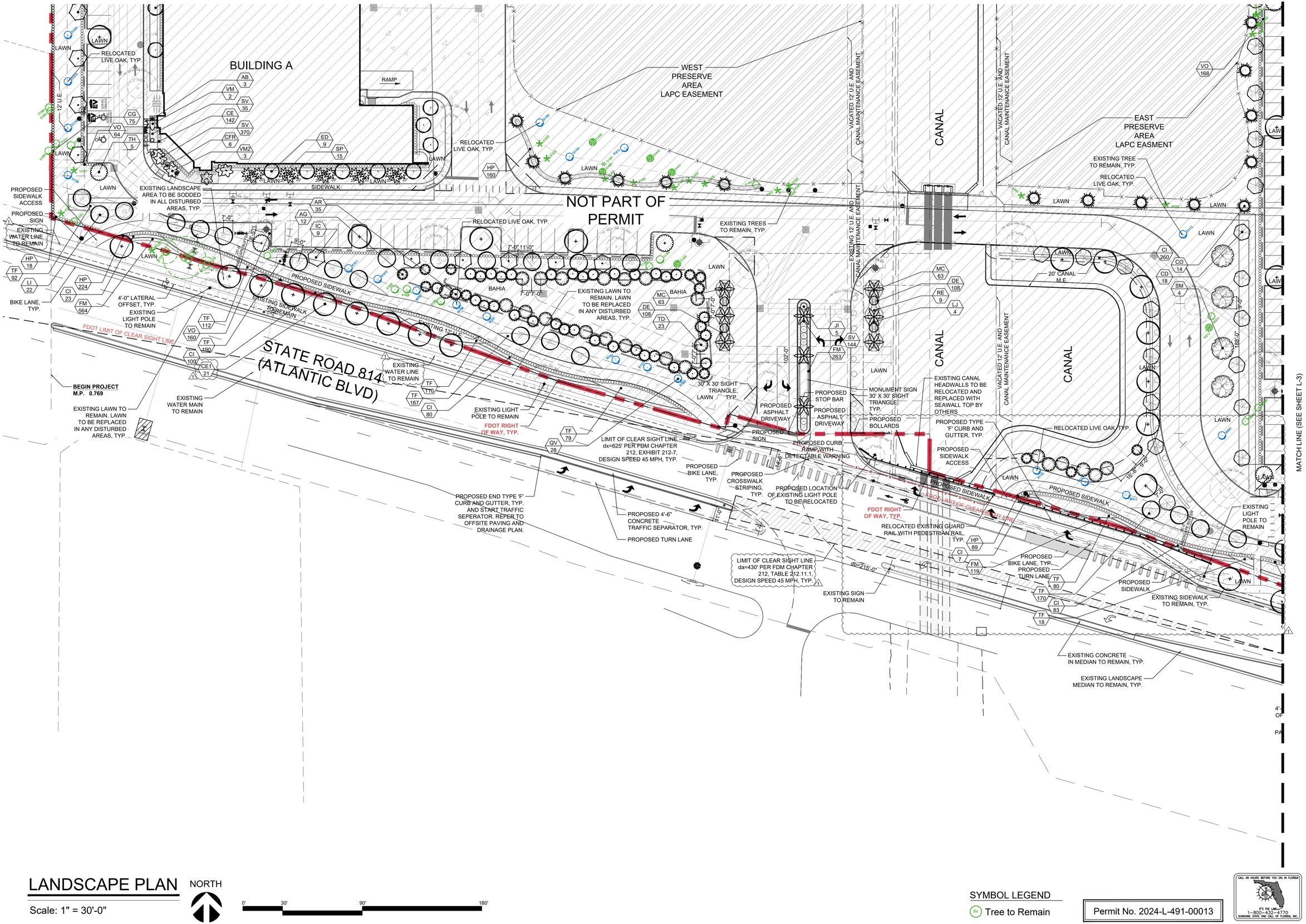
Lic. # LA0000889
Member: A.S.L.A.

Drawing: ROW Landscape Plan: Index
Date: 06/07/2022
Scale: See Left
Drawn by: AM
Sheet No.:

L-1

Cad Id.: 2022-059

2022\Drawings\Cocomar 2022-059\PDFS\2025.01.08\Cocomar_7.8 Proj File 08_2025



LANDSCAPE PLAN

Scale: 1" = 30'-0"

NORTH

0' 30' 90' 180'

SYMBOL LEGEND

Tree to Remain

Permit No. 2024-L-491-00013

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Project:

GREYSTAR COCOMAR

COCONUT CREEK, FL

STATE ROAD 814 ROW LANDSCAPE PLAN

Revisions:	Date:	By:
1) FDOT Comments	01.20.2025	AR

Seal:

REGISTERED LANDSCAPE ARCHITECT
ANTHONY R. WITKIN
LA0000889
STATE OF FLORIDA
09/09/2025

Lic. # LA0000889
Member: A.S.L.A.

Drawing: ROW Landscape Plan

Date: 06/13/2022

Scale: See Left

Drawn by: AM

Sheet No.:

L-2

Cad Id.: 2022-059

MATCH LINE (SEE SHEET L-2)

BUILDING B

NOT PART OF PERMIT

BUILDING C

LYONS ROAD

PROPOSED COMMUNITY GARDEN AREA, 4,000 S.F.

EXISTING TREE TO REMAIN, TYP.

RELOCATED LIVE OAK, TYP.

EXISTING BUS STOP TO REMAIN

EXISTING SIDEWALK TO REMAIN

EXISTING 12' U.E.

BIKE LANE, TYP.

4'-0" LATERAL OFFSET, TYP.

EXISTING MEDIAN PALM TO REMAIN, TYP.

LIMIT OF CLEAR SIGHT LINE dx=625' PER FDM CHAPTER 212, EXHIBIT 212-7, DESIGN SPEED 45 MPH, TYP.

FDOT LIMIT OF CLEAR SIGHT LINE

EXISTING LIGHT POLE TO REMAIN

EXISTING LANDSCAPE AREA TO BE SODDED IN ALL DISTURBED AREAS, TYP.

EXISTING SIGN TO REMAIN

PROPOSED SIDEWALK

STATE ROAD 814 (ATLANTIC BLVD)

EXISTING MEDIAN TO REMAIN, TYP.

EXISTING 36'-0" FPL EASEMENT

OVER HEAD POWER LINES, TYP.

EXISTING OVERHEAD POWERLINES TO REMAIN

EXISTING 10'-0" FPL EASEMENT

MONUMENT SIGN

PROPOSED SIDEWALK ACCESS

PROPOSED SIGN

SILVER BUTTONWOOD TREES TO COMPLY WITH FPL 'RIGHT TREE, RIGHT PLACE' GUIDELINES TYP.

FDOT RIGHT OF WAY, TYP.

END PROJECT M.P. 1.098

EXISTING SIDEWALK TO REMAIN

EXISTING 12' U.E.

EXISTING LIGHT POLE TO REMAIN

EXISTING SIGN TO REMAIN

BAHIA

LAWN

SIDEWALK

RAMP

LANDSCAPE PLAN

Scale: 1" = 30'-0"

NORTH

0' 30' 90' 180'

SYMBOL LEGEND

Tree to Remain

Permit No. 2024-L-491-00013

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Project:

GREYSTAR COCOMAR

COCONUT CREEK, FL

STATE ROAD 814 ROW LANDSCAPE PLAN

Revisions:	Date:	By:
1) FDOT Comments	01.20.2025	AR
2) FDOT Comments	06.26.2025	AR

Seal:

Lic. # LA0000889
Member, A.S.L.A.

Drawing: ROW Landscape Plan

Date: 06/13/2022

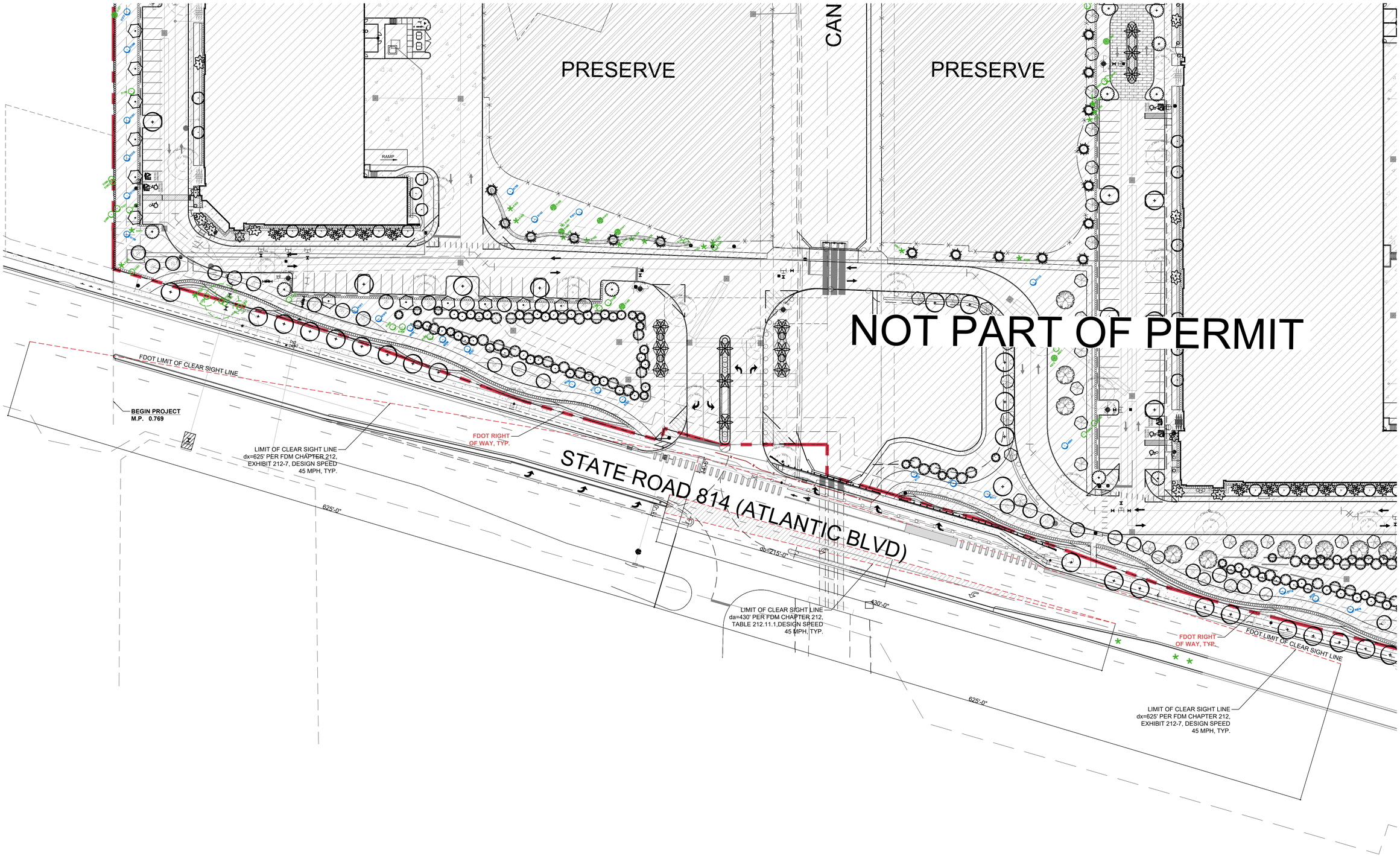
Scale: See Left

Drawn by: AM

Sheet No.:

L-3

Cad Id.: 2022-059



ROW LANDSCAPE EXHIBIT

Scale: 1" = 40'-0"

NORTH

0' 40' 120' 240'

SYMBOL LEGEND

Tree to Remain

Permit No. 2024-L-491-00013

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Project:
GREYSTAR COCOMAR
COCONUT CREEK, FL
STATE ROAD 814 ROW LANDSCAPE EXHIBIT

Revisions:	Date:	By:
1) FDOT Comments	01.20.2025	AR

Seal:
REGISTERED LANDSCAPE ARCHITECT
ANTHONY M. RIGO
LA0000889
STATE OF FLORIDA
09/08/2025

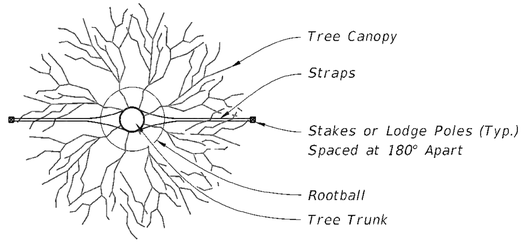
Lic. # LA0000889
Member: A.S.L.A.

Drawing: ROW Landscape Exhibit
Date: 06/13/2022
Scale: See Left
Drawn by: AM
Sheet No.:

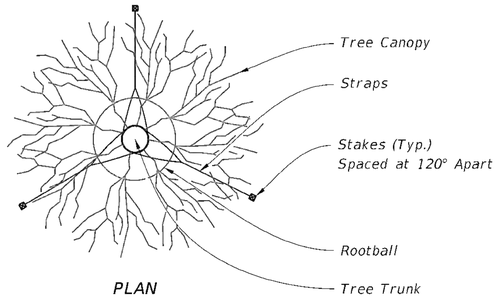
L-4

Cad Id.: 2022-059

2022\Drawings\Current 2022\ENTITLEMENTS\2022.06.13\Current_L-4.dwg Sep 08, 2025



PLAN



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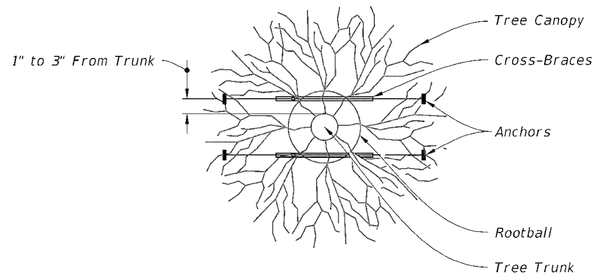

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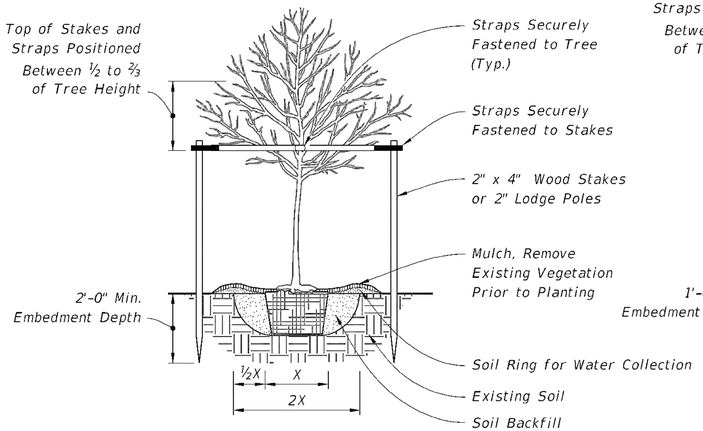
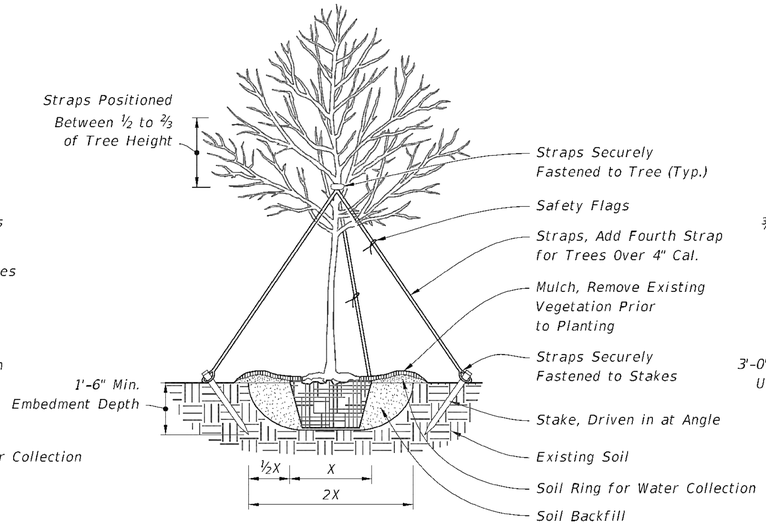


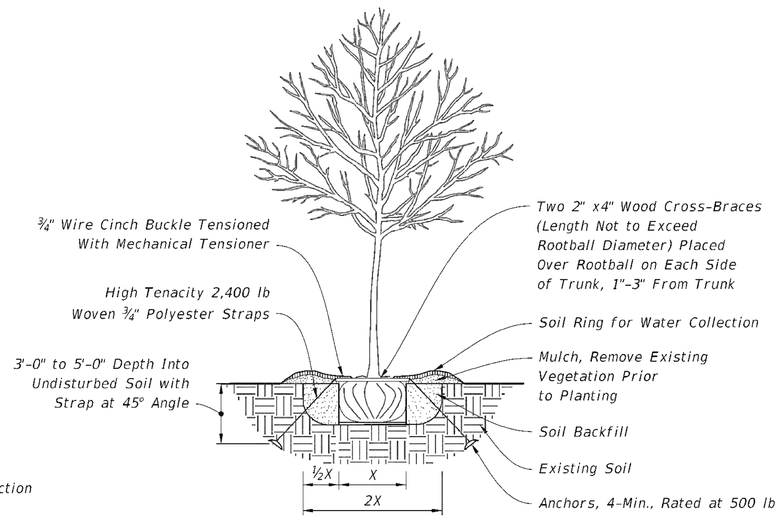
ELEVATION

UNDER 2½" CALIPER TREE PLANTING



ELEVATION

2½" TO 6" CALIPER TREE PLANTING



ELEVATION

UNDER 4" CALIPER TREE PLANTING WITH UNDERGROUND BRACING

GENERAL NOTES:

1. Staking guidelines are based on standard horticultural requirements and are provided for plant establishment purposes only. Details not intended to apply when bracing is intended to address safety considerations. When bracing for safety, refer to Designer generated signed and sealed details. These guidelines are not intended to apply when the tree or palm is within falling distance of a roadway, pedestrian or bicycle route, under extreme wind loads, non-standard soil properties, non-standard plant dimensions, or when rootball is anticipated to be greater than 4 feet diameter and planted on 1:3 slope or steeper.

2. All dimensions 6" and less are exaggerated for illustrative purposes only. Dimensions shown for wood materials are nominal. Slopes shown are Vertical:Horizontal.

3. Remove plant containers prior to planting. Remove a minimum of the top 1/3 of burlap, fabric, or wire mesh for plants not grown in containers.

4. Allow no more than 1" of soil to cover the uppermost root on all trees. Set the top of rootball 1"-2" above finish grade after settling and set plumb to the horizon.

5. Backfill with loosened existing soil or as shown in the plans. Remove rocks, sticks, or other deleterious material greater than 1" in any direction prior to backfilling. Water and tamp to remove air pockets. Contact the Engineer prior to planting if existing soils contain excessive sand, clay, or other material not conducive to proper plant growth.

6. Construct soil rings at the outer edge of the planting pit with a height of 3" and gently sloping sides unless a permanent, subsurface or drip irrigation system is provided. Do not pile soil on top of rootball.

7. Construct a 3" deep layer of mulch placed 2" off the edge of the trunk flare, around the base of shrub, or solidly around ground cover. Never pile mulch against the tree trunk.

8. Install guying with minimum 1" wide nylon or polypropylene straps with a minimum 600 lb. break strength. Check straps monthly and adjust as required to eliminate girdling of tree. Locate all wood stakes beyond the edge of soil ring in existing soil and embed a minimum of 18" below finished grade unless otherwise specified. Alternate tree bracing and guying systems specified or approved by the Engineer may be used in lieu of the tree bracing and guying methods detailed on the Index.

9. Relocated Trees and Palms: Brace relocated trees and palms in accordance with the Contract Documents. Remove bracing at the conclusion of the contract or as directed by the Engineer. Bracing or straps must not damage or become embedded in the tree bark.

10. Use 2" x 2" minimum wood stakes unless otherwise shown in the Plans or directed by the Engineer. Use wood meeting #2 Common or better in accordance with the Standard Grading Rules for Southern Pine.

11. Drive stakes into existing, undisturbed soil. Localized compaction may be provided to prevent displacement of the stakes for previously disturbed existing soils that do not provide sufficient stability.

LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	LANDSCAPE INSTALLATION	INDEX	SHEET
11/01/19						580-001	1 of 2

10/3/2023 1:58:04 PM

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Project:
GREYSTAR COCOMAR
COCONUT CREEK, FL
LANDSCAPE DETAILS

Revisions:

Revisions:	Date:	By:
1) FDOT Comments	01.20.2025	AR

Seal:
REGISTERED LANDSCAPE ARCHITECT
STATE OF FLORIDA
09/08/2025
Lic. # LA0000889
Member: A.S.L.A.

Drawing: Landscape Details
Date: 06/13/2022
Scale: NTS
Drawn by: AM
Sheet No.:
L-5
Cad Id.: 2022-059

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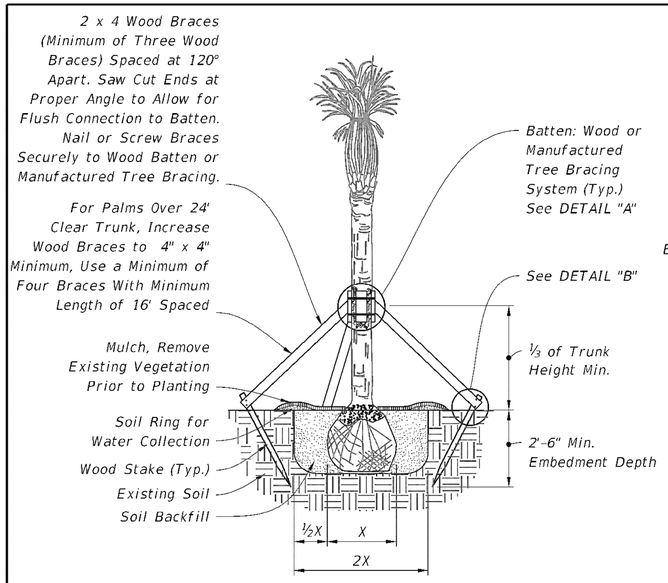
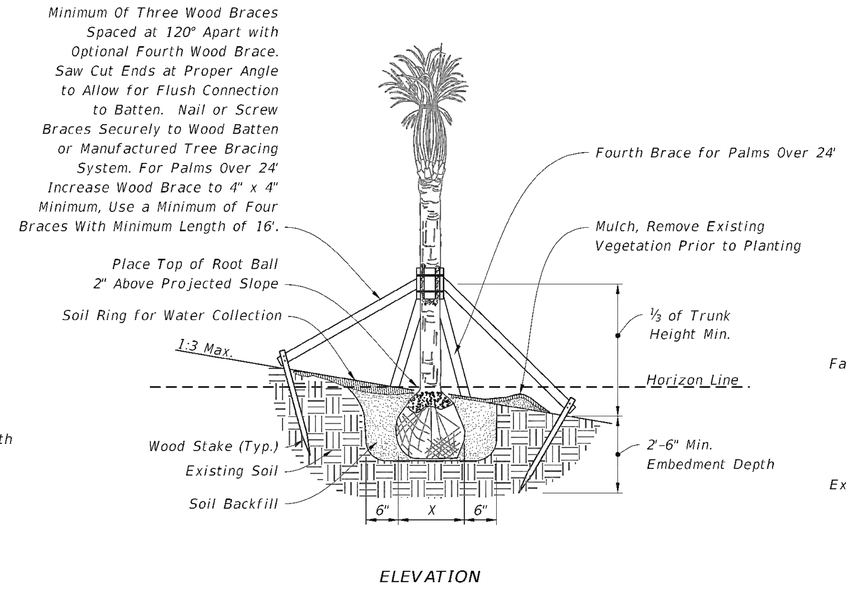


ELEVATION

NOTE: May be used on large caliper canopy trees, adjust banding every 6 months or as needed (for fast growing species) to prevent girdling.

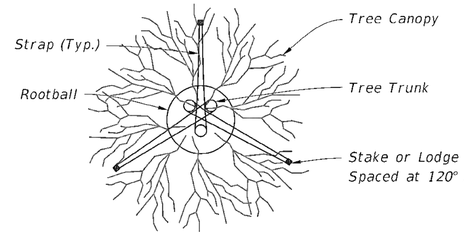
PALM PLANTING



ELEVATION

NOTE: May be used on large caliper canopy trees pending slope and rootball width, adjust banding every 6 months or as needed (for fast growing species) to prevent girdling.

PALM PLANTING ON SLOPE



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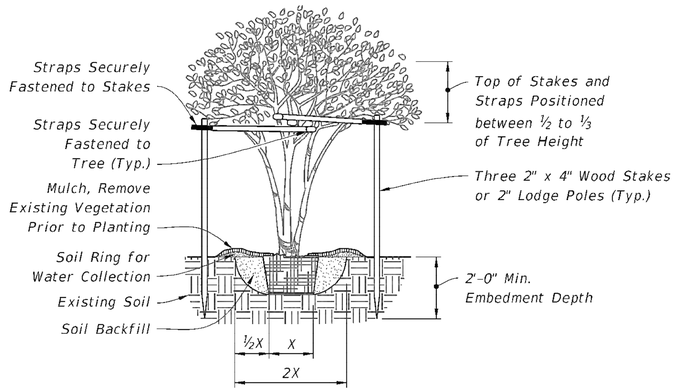
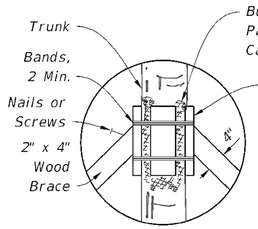


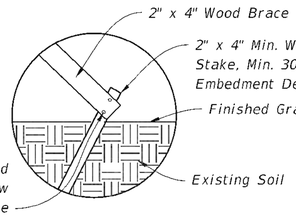
ELEVATION

MAX 10' HT. MULTI-TRUNK TREE PLANTING



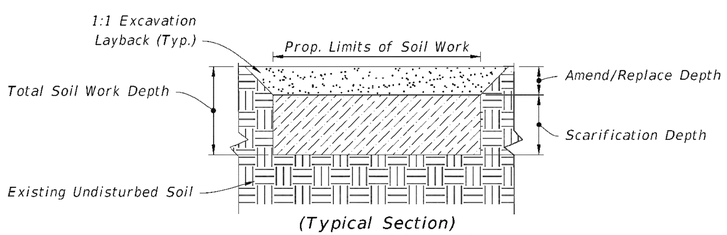
NOTE: Install bands and couplings that are rated a min. 900 lb. tensile strength, and are corrosion and UV resistant.

DETAIL "A"

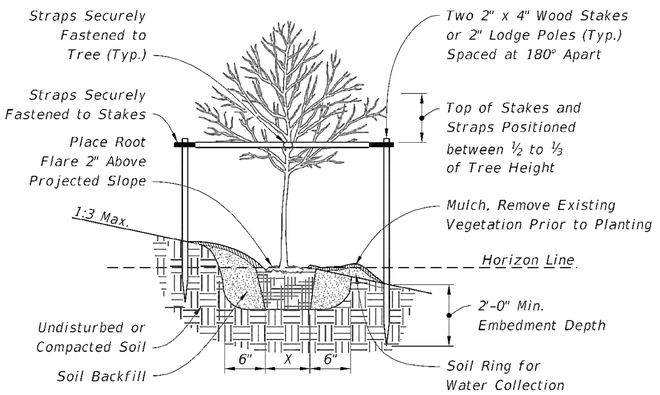


NOTE: Stake Into Firm, Existing Soil.

DETAIL "B"

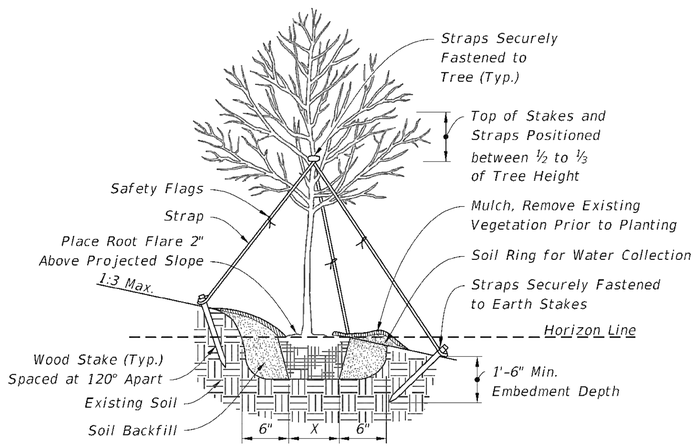


LANDSCAPE SOIL WORK



ELEVATION

UNDER 2½" CALIPER TREE PLANTING ON SLOPE



ELEVATION

2½" TO 6" CALIPER TREE PLANTING ON SLOPE

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LAST REVISION	REVISION	DESCRIPTION:				
11/01/19			FDOT FY 2024-25 STANDARD PLANS	LANDSCAPE INSTALLATION	INDEX 580-001	SHEET 2 of 2

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Project: GREYSTAR COCOMAR
COCONUT CREEK, FL
LANDSCAPE DETAILS

Revisions:	Date:	By:
1) FDOT Comments	01.20.2025	AR

Seal:
STATE OF FLORIDA
09/08/2025

Lic. # LA0000889
Member: A.S.L.A.

Drawing: Landscape Details
Date: 06/13/2022
Scale: NTS
Drawn by: AM
Sheet No.:
L-6
Cad Id.: 2022-059

Permit No. 2024-L-491-00013

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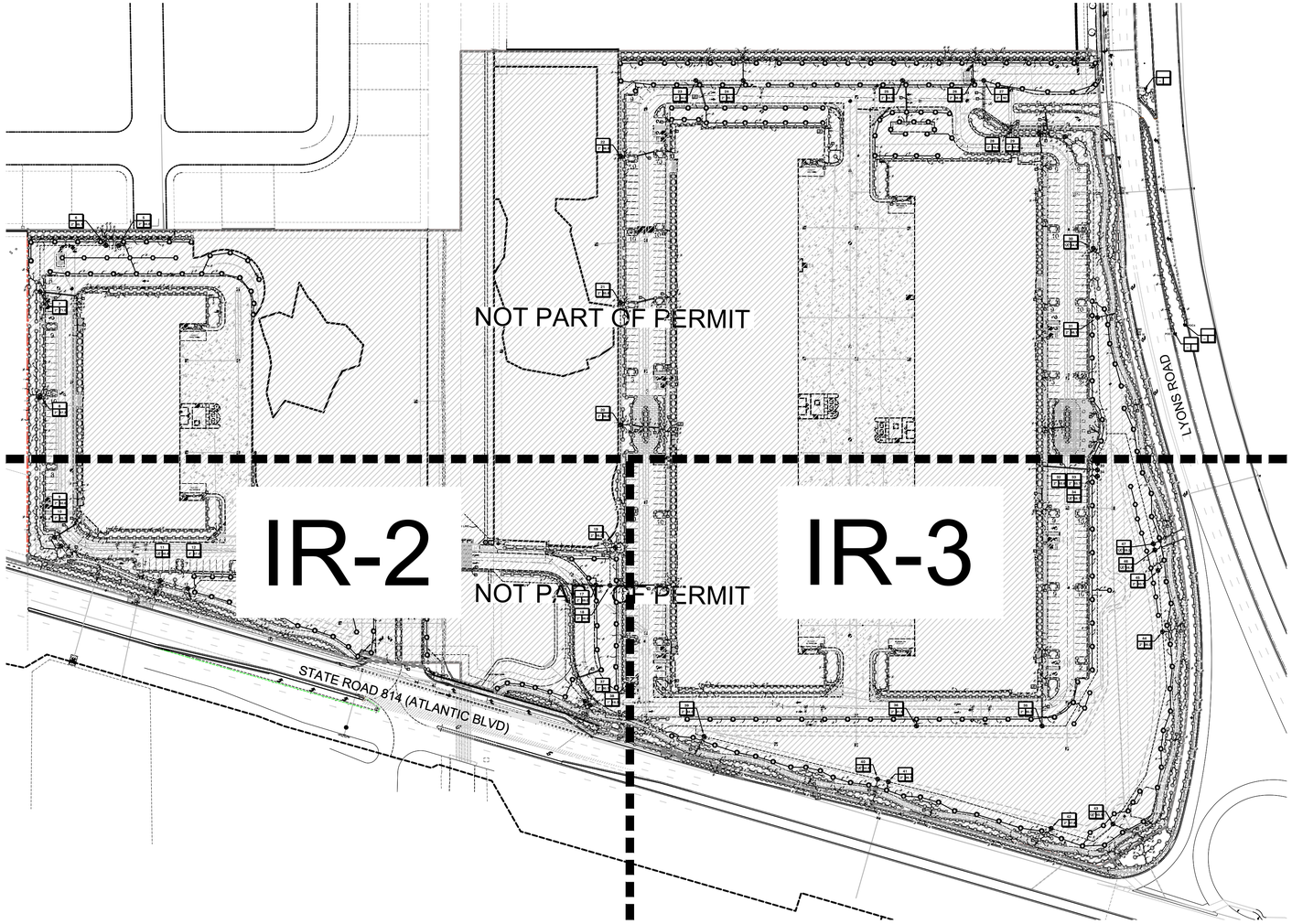

KEY PLAN

Scale: 1" = 100'-0"

NORTH

0' 100' 300' 600'

SHEET INDEX:

IR-1 INDEX
IR-2 ROW IRRIGATION PLAN
IR-3 ROW IRRIGATION PLAN
IR-4 IRRIGATION DETAILS AND SCHEDULE

THE IRRIGATION SYSTEM SHALL USE THE LOWEST QUALITY WATER AVAILABLE WHICH ADEQUATELY AND SAFELY MEETS THE WATER NEEDS OF THE SYSTEM. STORM WATER, RECLAIM WATER, OR GREY WATER IRRIGATION SHALL BE USED WHENEVER POSSIBLE.

FDOT REQUIRES 24-HOUR EMERGENCY ACCESS TO THE WATER SOURCE.

THE CONTRACTOR SHALL PROVIDE FDOT DISTRICT OPERATIONS MANAGER WITH A SET OF "AS-BUILT" IRRIGATION PLANS.

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Project:

GREYSTAR COCOMAR

COCONUT CREEK, FL

STATE ROAD 814 ROW IRRIGATION PLAN: INDEX

Revisions: Date: By:

Seal:

REGISTERED LANDSCAPE ARCHITECT ANTHONY M. WITKIN LA 0000889 09/30/2025 STATE OF FLORIDA

Lic. # LA0000889
Member: A.S.L.A.

Drawing: ROW Irrigation Plan: Index

Date: 09/27/2024

Scale: See Left

Drawn by: AM,JC

Sheet No.:

IR-1

Cad Id.: 2022-059

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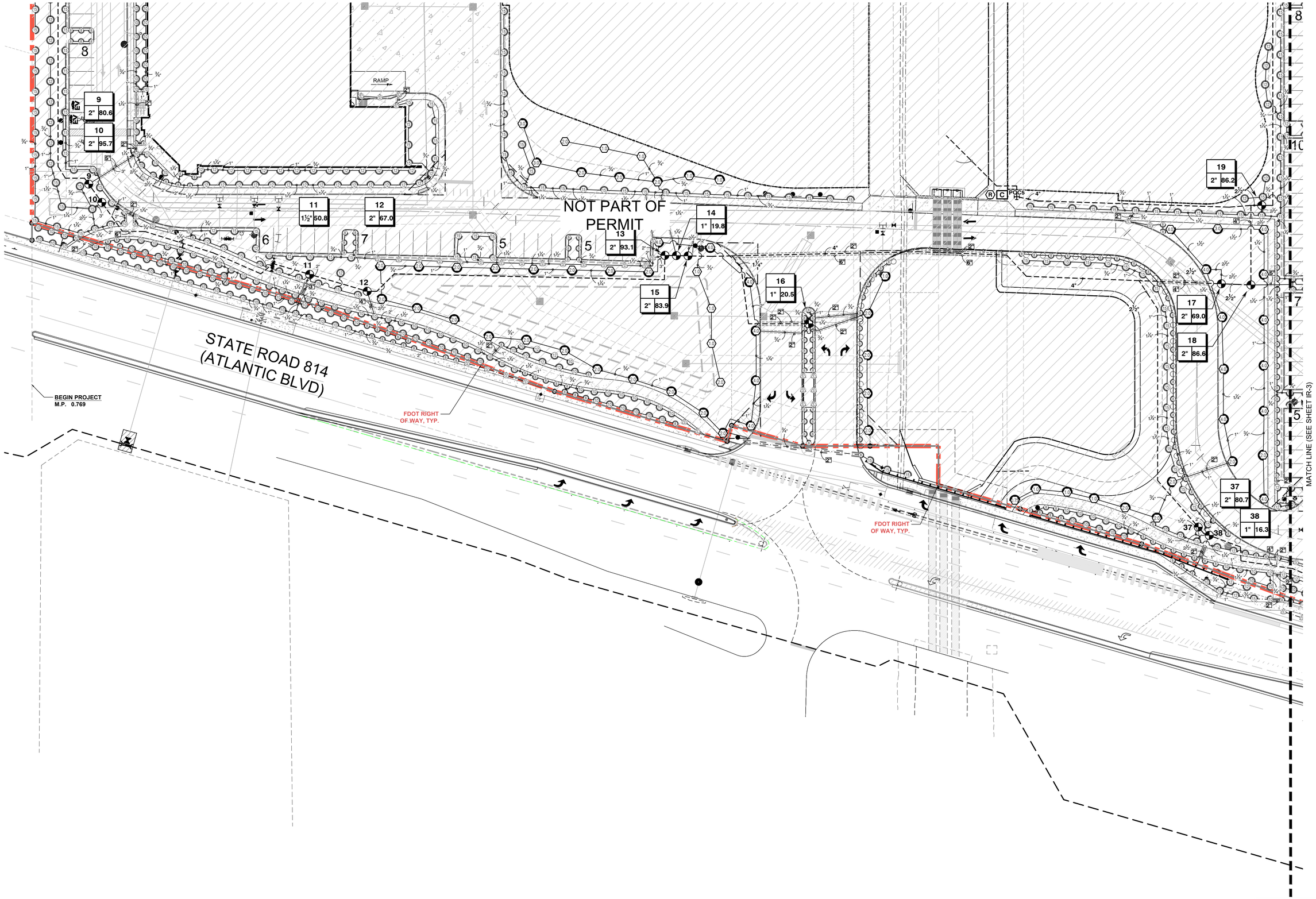

IRRIGATION PLAN

Scale: 1" = 30'-0"

NORTH

0' 30' 90' 180'

Permit No. 2024-L-491-00013

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GREYSTAR COCOMAR

COCONUT CREEK, FL

STATE ROAD 814 ROW IRRIGATION PLAN

Revisions: Date: By:

Seal:

Lic. # LA0000889
Member: A.S.L.A.

Drawing: ROW Irrigation Plan

Date: 09/27/2024

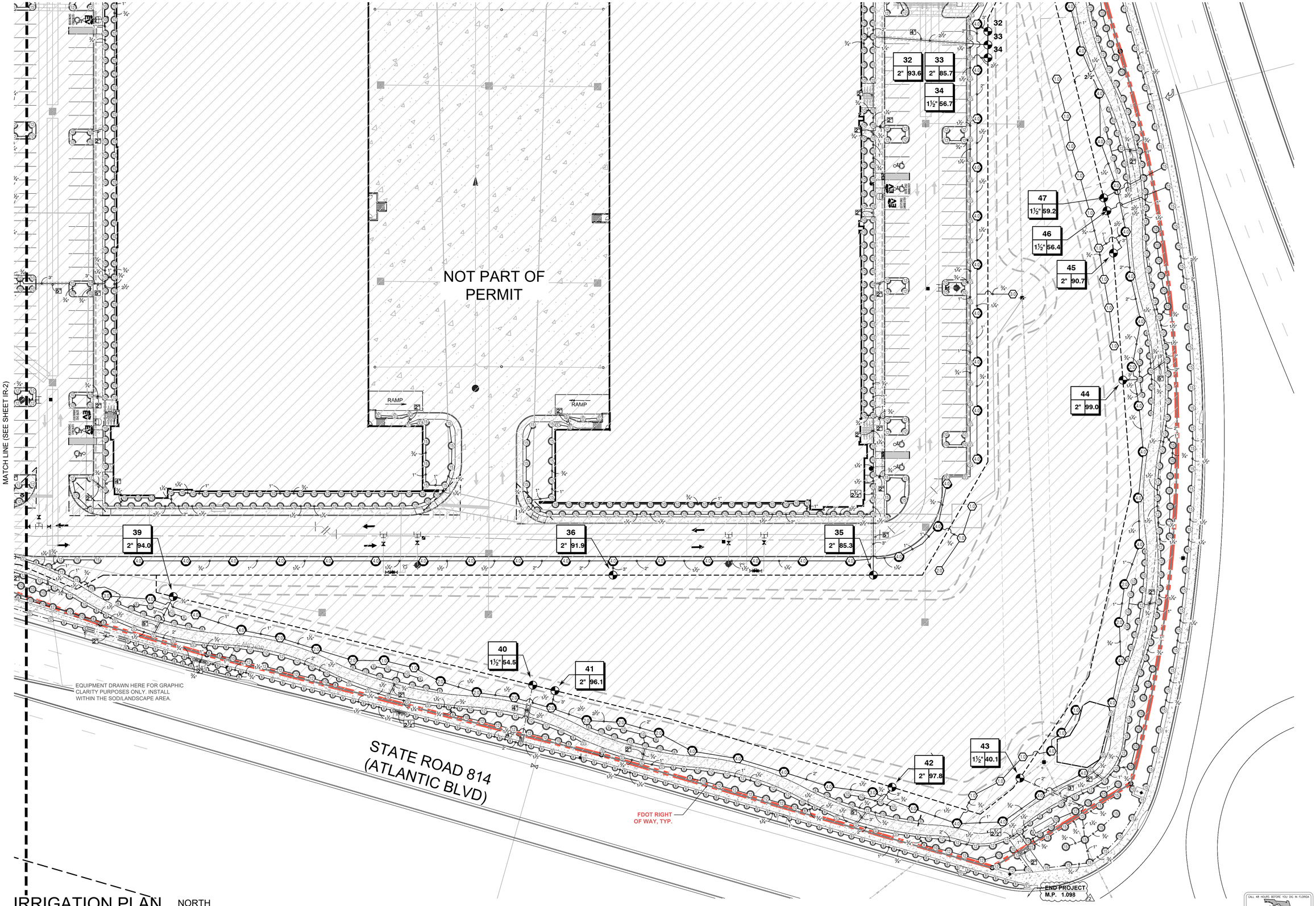
Scale: See Left

Drawn by: AM,JC

Sheet No.:

IR-2

Cad Id.: 2022-059



IRRIGATION PLAN

Scale: 1" = 30'-0"

NORTH

0' 30' 90' 180'

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GREYSTAR COCOMAR

COCONUT CREEK, FL

STATE ROAD 814 ROW IRRIGATION PLAN

Revisions:	Date:	By:
1) FDOT Comments	08.26.2025	AR

Seal:

Lic. # LA0000889
Member: A.S.L.A.

Drawing: ROW Irrigation Plan

Date: 09/27/2024

Scale: See Left

Drawn by: AM,JC

Sheet No.:

IR-3

Cad Id.: 2022-059

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Irrigation Notes

LAYOUT

LAYOUT IRRIGATION SYSTEM MAINLINES AND LATERAL LINES. MAKE ALL NECESSARY ADJUSTMENTS AS REQUIRED TO TAKE INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMITATIONS PRIOR TO EXCAVATING TRENCHES.

FLAG ALL SPRINKLER HEAD LOCATIONS. ADJUST LOCATION AND MAKE THE NECESSARY MODIFICATIONS TO NOZZLE TYPES ETC. AS REQUIRED TO INSURE 100% COVERAGE AND 50% OVERLAP.

LOW ANGLE TRAJECTORY NOZZLES SHALL BE USED WHEN ALL SPRINKLERS AND ROTORS ARE LOCATED WITHIN 100' OF POOLS OR PUBLIC GATHERING AREAS.

PIPE

PIPE LOCATIONS SHOWN ON PLAN ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED IN THE FIELD. WHEN LAYING-OUT MAINS AND LATERALS, LOCATE PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHEREVER POSSIBLE TO ALLOW SPACE FOR PLANT ROOT BALLS.

PIPING UNDER HARDSCAPES SUCH AS ROADS, WALKS, AND PATIOS ARE TO BE SLEEVED USING SCH. 40 PIPE.

PIPES 4" AND UNDER TO BE SOLVENT WELD. LARGER PIPES TO BE GASKETED 'O' RING PIPES AND USE THRUST BLOCKS OR MEGA LUGS AND DUCTILE IRON FITTINGS AT TURNING LOCATIONS.

***SIZE ALL PIPE SO NOT TO EXCEED 5' PER SECOND**
***INSTALL RAIN SENSOR AS PER LOCAL CODE**

PIPES CONVEYING RECLAIM WATER SHALL HAVE A 3' HORIZONTAL DISTANCE SEPARATION FROM OTHER PIPING OR UTILITY SERVICES. AN 18" VERTICAL SEPARATION SHALL BE MAINTAINED WHEN APPLICABLE.

AIR RELEASE VALVES TO BE USED AT THE END OF ALL MAINLINE RUNS.

WIRES

WIRES (OVER ALL MAIN)
MAXI-WIRE (14 GAUGE) TO BE INSTALLED ALONG MAINLINE INSTALLATION. USE 2" SCH. 40 PVC WITH SWEEP ELBOWS AT TURNING LOCATIONS WHEN SLEEVING IS REQUIRED. ALL SPLICES AND DECODERS SHALL BE ENCLOSED WITHIN A VALVE/SPLICE BOX. 3M DIRECT BURY DBY-6 WATERPROOF CONNECTIONS SHALL BE USED AT ALL DECODER CONNECTIONS (ENCAPSULATION).

WIRE RUNS SHALL NOT EXCEED 2.4 MILES (STAR) OR 9.6 MILES (LOOP).

A SINGLE FIELD DECODER SHOULD BE USED TO OPERATE A SINGLE SOLENOID/VALVE.

ALL IRRIGATION CONTROLLERS/DECODERS TO BE PROPERLY INSTALLED AND GROUNDED IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS. INSTALL SURGE PROTECTION ALONG 2 WIRE-SYSTEM PER MANUFACTURER'S RECOMMENDATION. (APPROXIMATELY EVERY 500 FEET)

TRACER WIRE (12 GUAGE) TO BE INSTALLED ALONG MAINLINE INSTALLATION. ADDITIONAL TRACER WIRE WILL BE REQUIRED WHEN DECODER DISTANCE FROM MAINLINE EXCEEEDS 5'. TRACER WIRE IS FOR LACATION PURPOSES ONLY.

FLUSHING

PRIOR TO PLACEMENT OF HEADS FLUSH ALL LINES UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS.

TRENCHING

TRENCH BOTTOM TO BE UNIFORM AND FREE OF DEBRIS. NATIVE EXCAVATED MATERIAL USED TO BACKFILL TRENCH SHALL BE FREE FROM ROCKS OR STONES LARGER THAN 1" IN DIAMETER.

MISC.

PRESSURE TEST MAINLINE AS PER FLORIDA BUILDING CODE. INSTALL IRRIGATION SYSTEM AS PER LATEST EDITION OF THE FLORIDA BUILDING CODE, APPENDIX F., AND ALL PERTINENT LOCAL CODES.

SPRAY HEADS INSTALLED IN SHRUB AREAS TO BE 12 INCH POP-UPS OR INSTALLED ON RISERS.

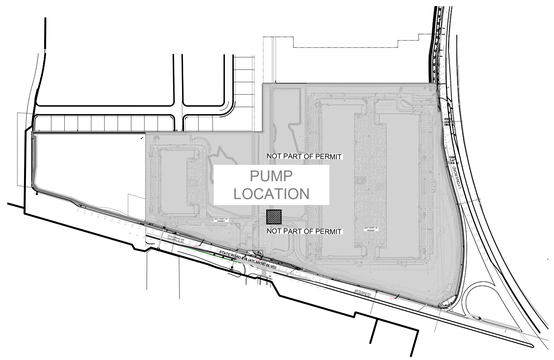
DESIGN

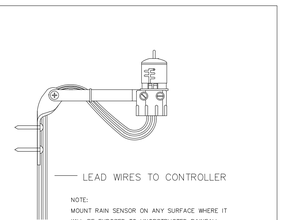
THIS DESIGN IS DIAGRAMMATIC. ALL IRRIGATION EQUIPMENT SUCH AS PIPES, VALVES, , ETC., SHOWN WITHIN PERVIOUS AREAS ARE FOR DESIGN CLARIFICATION ONLY. THE IRRIGATION CONTRACTOR SHALL INSTALL IRRIGATION EQUIPMENT IN PLANTING AREAS WHEREVER POSSIBLE.

THE IRRIGATION CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE741 THEMSELVES WITH THE SCOPE OF WORK, INCLUDING BUT NOT LIMITED TO GRADE DIFFERENCES, LOCATION OF WALLS, STRUCTURES, UTILITIES AND EXISTING IRRIGATION EQUIPMENT. THE IRRIGATION CONTRACTOR IS RESPONSIBLE SHALL REPAIR AND/OR REPLACE ANY DAMAGE CREATED BY THEIR WORK. THEY SHALL COORDINATE HIS WORK WITH OTHER CONTRACTOR OR MUNICIPAL AUTHORITIES FOR THE LOCATION AND INSTALLATION OF IRRIGATION EQUIPMENT UNDER ROADWAYS AND PAVING, SLEEVES THROUGH WALLS AND FLOORS, ETC.

INSTALL ALL IRRIGATION EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. SUBSTITUTIONS FOR IRRIGATION EQUIPMENT TO BE APPROVED BY THE IRRIGATION DESIGNER. EQUIPMENT CHANGES TO INCLUDE BUT NOT LIMITED TO PUMP, CONTROLLER, SPRAY HEADS, ROTORS, AND VALVES.

DO NOT INSTALL IRRIGATION EQUIPMENT AS SHOWN ON THE DRAWINGS WHEN FIELD CONDITIONS DIFFER. OBSTRUCTIONS OR DIFFERENCES TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR TO ASSUME FULL RESPONSIBILITY.





RAIN BIRD RAIN SENSOR

IRRIGATION BREAKDOWN

IRRIGATION SCHEDULE(ATLANTIC BLVD ROW SWALE)

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
EST LCS RCS CST SST	Rain Bird 1806 15 Strip Series Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	9	30
Q T H F	Rain Bird 1806 8 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	115	30
Q T H 10 F	Rain Bird 1806 10 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	27	30
Q T H TQ 12 F	Rain Bird 1806 12 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	4	30
Q T H TQ 15 F	Rain Bird 1806 15 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	18	30
Q T H F	Rain Bird 1808 8 Series MPR Shrub Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	3	30
Q T H 10 F	Rain Bird 1806 10 Series MPR Shrub Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	4	30
Q T H TQ 12 F	Rain Bird 1806 12 Series MPR Shrub Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	5	30
Q T H TQ 15 F	Rain Bird 1806 15 Series MPR Shrub Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	4	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Irrigation Lateral Line: PVC Class 160 SDR 26 3/4"	72.4 lf
	Irrigation Lateral Line: PVC Class 200 SDR 21 3/4"	3,230 lf
	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	362.2 lf
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/4"	245.9 lf
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/2"	183.4 lf
	Irrigation Lateral Line: PVC Class 200 SDR 21 2"	16.0 lf
	Pipe Sleeve: PVC Class 200 SDR 21 2"	152.0 lf
	Pipe Sleeve: PVC Class 200 SDR 21 2 1/2"	9.1 lf
	Pipe Sleeve: PVC Class 200 SDR 21 4"	5.7 lf

IRRIGATION SCHEDULE(LYONS ROAD MEDIAN)

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
Q T H F	Rain Bird 1808 8 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	8	30
Q T H 10 F	Rain Bird 1806 10 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	1	30
Q T H TQ 12 F	Rain Bird 1806 12 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	34	30
Q T H TQ 15 F	Rain Bird 1806 15 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	18	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
POC2	Point of Connection 3" Point of Connection to existing Irrigation along Atlantic Blvd. Contractor to Field Verify Connection.	1
POC3	Point of Connection 3" Point of Connection to existing Irrigation along Atlantic Blvd. Contractor to Field Verify Connection.	1
POC4	Point of Connection 3" Point of Connection to existing Irrigation along Atlantic Blvd. Contractor to Field Verify Connection.	1
	Irrigation Lateral Line: PVC Class 200 SDR 21 3/4"	269.8 lf
	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	121.5 lf
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/4"	178.3 lf
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/2"	124.8 lf
	Irrigation Lateral Line: PVC Class 200 SDR 21 2"	37.7 lf

Valve Callout
Valve Number
Valve Flow
Valve Size

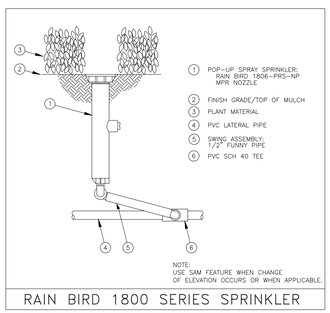
IRRIGATION SCHEDULE OVERALL

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
EST LCS RCS CST SST	Rain Bird 1806 15 Strip Series Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	9	30
Q T H F	Rain Bird 1806 8 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	128	30
Q T H 10 F	Rain Bird 1806 10 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	52	30
Q T H TQ 12 F	Rain Bird 1806 12 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	38	30
Q T H TQ 15 F	Rain Bird 1806 15 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	36	30
2O 2H 3F 4O 4H 4F	Rain Bird 1806 SQ Series Shrub Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	3	30
EST LCS RCS CST SST	Rain Bird 1806 15 Strip Series Shrub Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	233	30
Q T H F	Rain Bird 1808 8 Series MPR Shrub Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	290	30
Q T H 10 F	Rain Bird 1806 10 Series MPR Shrub Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	1,026	30
Q T H TQ 12 F	Rain Bird 1806 12 Series MPR Shrub Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	319	30
Q T H TQ 15 F	Rain Bird 1806 15 Series MPR Shrub Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	387	30

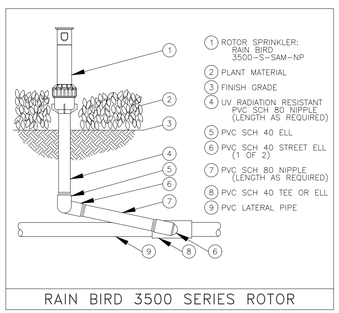
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
3504	Rain Bird 3504-PC 0.75 Turf Rotor, 4" Pop-Up. Adjustable and Full Circle.	3	55	0.85	18'
3504	Rain Bird 3504-PC 1.0 Turf Rotor, 4" Pop-Up. Adjustable and Full Circle.	53	55	1.18	22'
3504	Rain Bird 3504-PC 2.0 Turf Rotor, 4" Pop-Up. Adjustable and Full Circle.	75	55	2.15	28'
3504	Rain Bird 3504-PC 3.0 Turf Rotor, 4" Pop-Up. Adjustable and Full Circle.	10	55	3.25	32'
3504	Rain Bird 3504-PC 4.0 Turf Rotor, 4" Pop-Up. Adjustable and Full Circle.	144	55	4.6	35'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird PEB 1" 1in., 1-1/2in., 2in., 3in. Plastic Industrial Remote Control Valve. Low Flow Operating Capability, Globe Configuration.	3
	Rain Bird PEB 1-1/2" 1in., 1-1/2in., 2in., 3in. Plastic Industrial Remote Control Valve. Low Flow Operating Capability, Globe Configuration.	7
	Rain Bird PEB 2" 1in., 1-1/2in., 2in., 3in. Plastic Industrial Remote Control Valve. Low Flow Operating Capability, Globe Configuration.	33
C	Rain Bird ESP-LXD 50 Station, 2-Wire Decoder based Controller. (1) ESP-LXD 50-Station, Indoor/Outdoor, Plastic Wall-Mount Enclosure. System Requirements: Rain Bird FD-XXX-TURF Field Decoders, Paige Electric Cable P7072D & Rain Bird WC2P Dry Splices ONLY. Ground System w/ (X) LSP-1TURF Line Surge Protectors in Rain Bird Round Valve Boxes. Install Per Manufacturers Recommendations.	1
R	Rain Bird RSD-BEx Rain Sensor, with metal latching bracket, extension wire.	1
POC2	Point of Connection 3" Point of Connection to existing Irrigation along Atlantic Blvd. Contractor to Field Verify Connection.	1
POC3	Point of Connection 3" Point of Connection to existing Irrigation along Atlantic Blvd. Contractor to Field Verify Connection.	1
POC4	Point of Connection 3" Point of Connection to existing Irrigation along Atlantic Blvd. Contractor to Field Verify Connection.	1
POC5	Point of Connection 4" 10 HP IRRIGATION CRAFT PUMP with SUCTION LINE	1
	Irrigation Lateral Line: PVC Class 160 SDR 26 3/4"	19,510 lf
	Irrigation Lateral Line: PVC Class 160 SDR 26 1"	4,844 lf
	Irrigation Lateral Line: PVC Class 160 SDR 26 1 1/4"	4,346 lf
	Irrigation Lateral Line: PVC Class 160 SDR 26 1 1/2"	2,394 lf
	Irrigation Lateral Line: PVC Class 160 SDR 26 2"	2,380 lf
	Irrigation Lateral Line: PVC Class 160 SDR 26 2 1/2"	1,267 lf
	Irrigation Lateral Line: PVC Class 160 SDR 26 3"	577.7 lf
	Irrigation Lateral Line: PVC Class 200 SDR 21 3/4"	3,500 lf
	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	504.0 lf
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/4"	424.2 lf
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/2"	308.2 lf
	Irrigation Lateral Line: PVC Class 200 SDR 21 2"	130.9 lf
	Irrigation Lateral Line: PVC Class 200 SDR 21 2 1/2"	42.3 lf
	Irrigation Mainline: PVC Schedule 40 1 1/4"	96.0 lf
	Irrigation Mainline: PVC Schedule 40 2 1/2"	4,835 lf
	Irrigation Mainline: PVC Schedule 40 3"	19.8 lf
	Irrigation Mainline: PVC Schedule 40 4"	1,634 lf
	Pipe Sleeve: PVC Class 200 SDR 21 2"	161.6 lf
	Pipe Sleeve: PVC Class 200 SDR 21 2 1/2"	9.1 lf
	Pipe Sleeve: PVC Class 200 SDR 21 3"	22.2 lf
	Pipe Sleeve: PVC Class 200 SDR 21 4"	15.7 lf
	Pipe Sleeve: PVC Schedule 40	19.7 lf
	Pipe Sleeve: PVC Schedule 40 2"	1,026 lf
	Pipe Sleeve: PVC Schedule 40 2 1/2"	63.4 lf
	Pipe Sleeve: PVC Schedule 40 3"	150.4 lf
	Pipe Sleeve: PVC Schedule 40 4"	300.3 lf
	Pipe Sleeve: PVC Schedule 40 5"	171.7 lf
	Pipe Sleeve: PVC Schedule 40 6"	206.6 lf

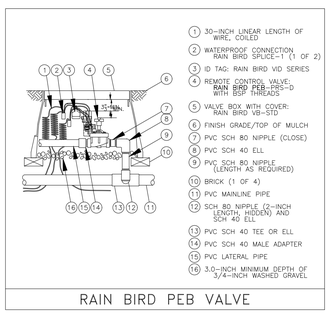
Valve Callout
Valve Number
Valve Flow
Valve Size



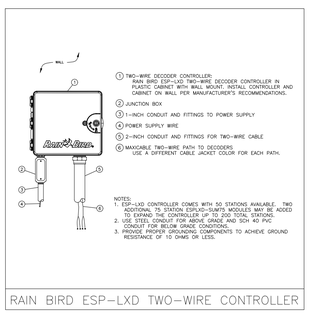
RAIN BIRD 1800 SERIES SPRINKLER



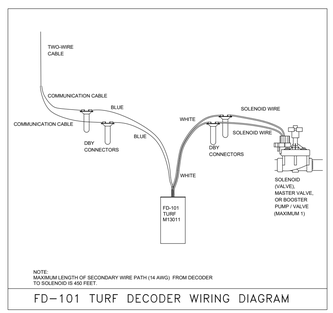
RAIN BIRD 3500 SERIES ROTOR



RAIN BIRD PEB VALVE



RAIN BIRD ESP-LXD TWO-WIRE CONTROLLER



FD-101 TURF DECODER WIRING DIAGRAM

Permit No. 2024-L-491-00013

WITKIN HULTS + PARTNERS
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Project:
GREYSTAR COCOMAR
COCONUT CREEK, FL
IRRIGATION DETAILS AND SCHEDULE

Revisions: Date: By:

Seal:
REGISTERED LANDSCAPE ARCHITECT ANDREW MICHAEL WITKIN LA 0000889 09/30/2025 STATE OF FLORIDA

Lic. # LA0000889
Member: A.S.L.A.

Drawing: Irrigation Details
Date: 01/08/2024
Scale: NOT TO SCALE
Drawn by: AM,JC
Sheet No.:

IR-4

Cad Id.: 2022-059

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SECTION: **86039000**
COUNTY: **BROWARD**
STATE RD: **814**
PERMIT: **2024-L-491-00013**

EXHIBIT C

RESOLUTION

This Exhibit forms an integral part of the LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT between the DEPARTMENT and the AGENCY.

Please see attached Resolution provided by Agency