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 2019 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 Heller
Transportation Development Director

IT EEK\ EEK\ ctu CO 6(2019Grant)5-11-19.

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)

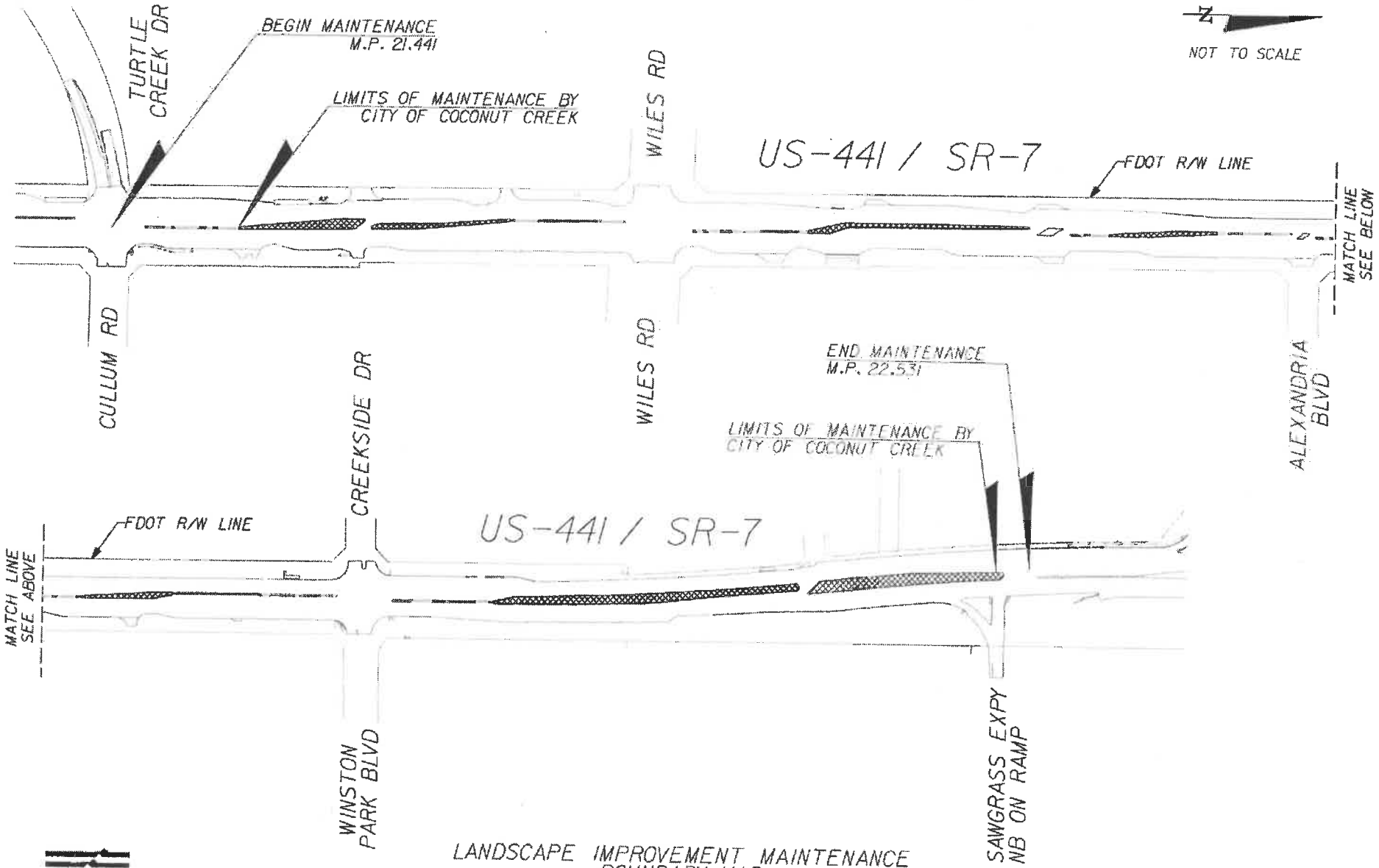
II. ORIGINAL INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT LIMITS FOR State Road 7 (US 441):

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

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

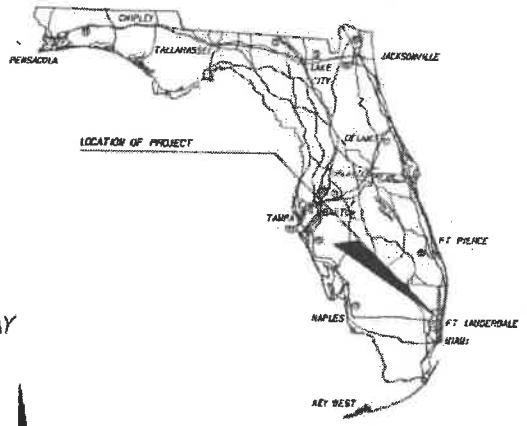
2019 STATE HIGHWAY BEAUTIFICATION GRANT

FINANCIAL PROJECT ID 444935-1-74-01

STATE ROAD NO. 7

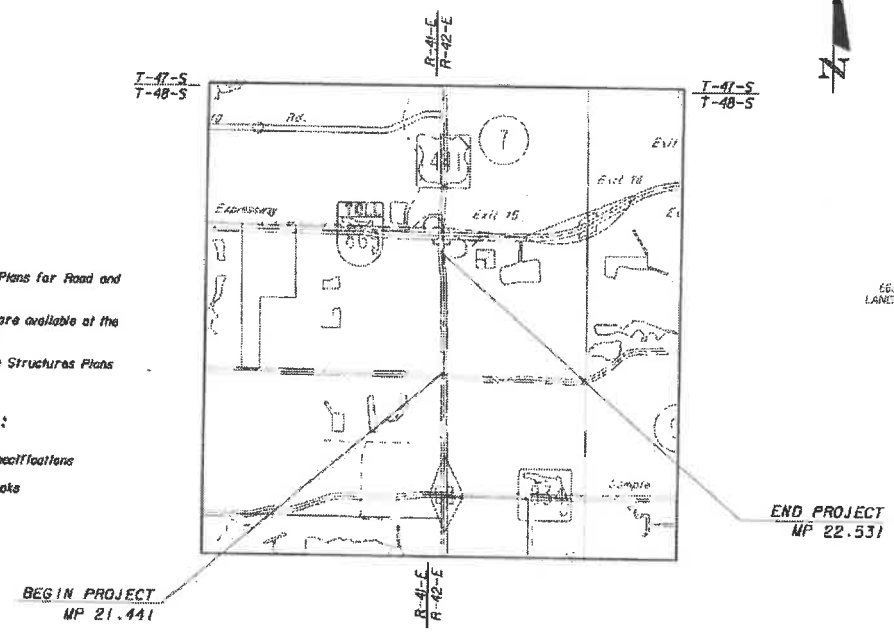
FROM N. OF CULLUM RD TO S. OF SAWGRASS EXPRESSWAY

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

6600 N. Andrews Ave, Ft. Lauderdale, FL 33309-2100 (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.

5/9/19

REGISTERED LANDSCAPE ARCHITECT TODD KRENE MOHLER LA 0001594 FLORIDA

LANDSCAPE PLANS
LANDSCAPE
ARCHITECT OF RECORD: TODD MOHLER R.L.A.

R.L.A. NO.: 0001594

FISCAL YEAR	SHEET NO.
19	LD-1

oberville 4/12/2019 10:09:47 AM Z:\Projects\4296.04 SR 7 HBC Grant Plans\CADD\landscape\KEYSLOW.DGN

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
8500 N. Andrews Ave, P. Lauderdale, FL 33309-2132 (954)776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD HUGHES, FLA. 6666154
CERTIFICATE OF AUTHORIZATION # LC27

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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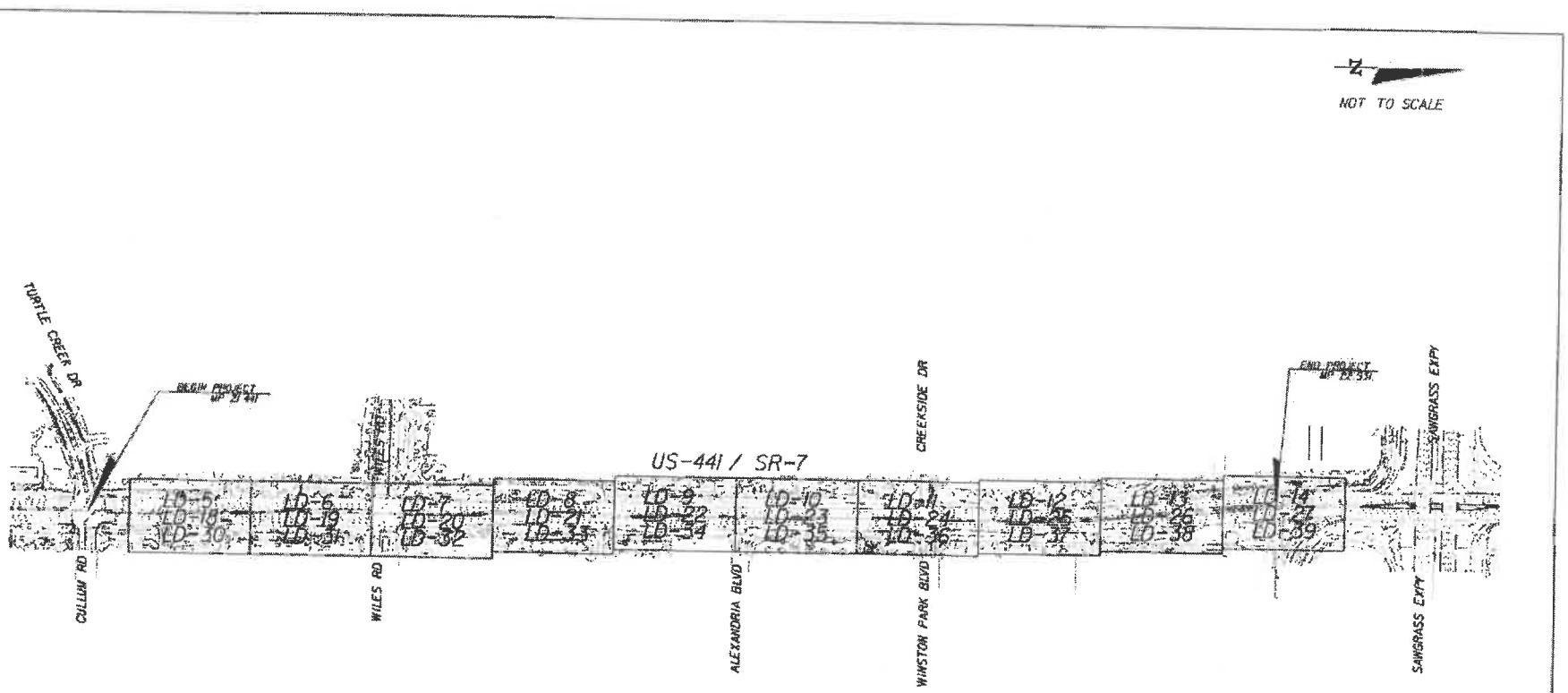

REVISIONS		
DATE	DESCRIPTION	

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	15	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	14	14	16	GOOD	RELOCATE	LD - 05
7	SABAL PALMETTO	SABAL	10	10	18	GOOD	RELOCATE	LD - 06
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	10	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	10	18	GOOD	REMAIN	LD - 10
14	QUERCUS VIRGINIANA	LIVE OAK	8	15	20	GOOD	REMAIN	LD - 12
15	SABAL PALMETTO	SABAL	20	10	20	GOOD	REMAIN	LD - 12
16	SABAL PALMETTO	SABAL	16	10	16	GOOD	REMAIN	LD - 12
17	SABAL PALMETTO	SABAL	16	10	18	GOOD	REMAIN	LD - 12
18	SABAL PALMETTO	SABAL	10	10	20	GOOD	REMAIN	LD - 12
19	SABAL PALMETTO	SABAL	10	10	18	GOOD	REMAIN	LD - 12
20	SABAL PALMETTO	SABAL	10	10	18	GOOD	REMAIN	LD - 12
21	SABAL PALMETTO	SABAL	19	10	20	GOOD	REMAIN	LD - 12
22	SABAL PALMETTO	SABAL	10	10	18	GOOD	REMAIN	LD - 12
23	QUERCUS VIRGINIANA	LIVE OAK	9	10	20	GOOD	REMAIN	LD - 12
24	QUERCUS VIRGINIANA	LIVE OAK	8	16	14	GOOD	REMAIN	LD - 12
25	QUERCUS VIRGINIANA	LIVE OAK	8	18	30	GOOD	REMAIN	LD - 12
26	QUERCUS VIRGINIANA	LIVE OAK	8	18	40	GOOD	REMAIN	LD - 12
27	QUERCUS VIRGINIANA	LIVE OAK	9	18	20	GOOD	REMAIN	LD - 13
28	SABAL PALMETTO	SABAL	8	10	18	GOOD	REMAIN	LD - 13
29	SABAL PALMETTO	SABAL	8	10	18	GOOD	REMAIN	LD - 13
30	SABAL PALMETTO	SABAL	8	10	18	GOOD	REMAIN	LD - 13
31	SABAL PALMETTO	SABAL	8	10	14	GOOD	REMAIN	LD - 13
32	SABAL PALMETTO	SABAL	8	10	18	GOOD	REMAIN	LD - 13
33	SABAL PALMETTO	SABAL	8	10	16	GOOD	REMAIN	LD - 13
34	SABAL PALMETTO	SABAL	8	10	18	GOOD	REMAIN	LD - 13
35	SABAL PALMETTO	SABAL	8	10	14	GOOD	REMAIN	LD - 13
36	SABAL PALMETTO	SABAL	8	10	10	DEAD	REMOVE	LD - 12
37	SABAL PALMETTO	SABAL	8	10	18	GOOD	REMAIN	LD - 13
38	SABAL PALMETTO	SABAL	8	10	18	GOOD	REMAIN	LD - 13
39	SABAL PALMETTO	SABAL	8	10	18	GOOD	REMAIN	LD - 13
40	SABAL PALMETTO	SABAL	9	10	18	GOOD	REMAIN	LD - 13
41	SABAL PALMETTO	SABAL	9	10	18	GOOD	REMAIN	LD - 13
42	QUERCUS VIRGINIANA	LIVE OAK	8	16	12	GOOD	REMAIN	LD - 13
43	QUERCUS VIRGINIANA	LIVE OAK	6	12	14	FAIR	REMAIN	LD - 13
44	QUERCUS VIRGINIANA	LIVE OAK	7	16	18	FAIR	REMOVE	LD - 13
45	QUERCUS VIRGINIANA	LIVE OAK	5	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	8	14	20	FAIR	REMOVE	LD - 13
47	QUERCUS VIRGINIANA	LIVE OAK	8.5	22	25	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	14	14	POOR	REMAIN	LD - 13
51	SABAL PALMETTO	SABAL	10	18	14	GOOD	REMAIN	LD - 13
52	SABAL PALMETTO	SABAL	8	10	14	GOOD	REMAIN	LD - 13
53	SABAL PALMETTO	SABAL	8	18	18	GOOD	REMAIN	LD - 14
54	SABAL PALMETTO	SABAL	9	10	16	GOOD	REMAIN	LD - 14
55	SABAL PALMETTO	SABAL	10	10	26	GOOD	REMAIN	LD - 14
56	SABAL PALMETTO	SABAL	10	10	26	GOOD	REMAIN	LD - 14
57	SABAL PALMETTO	SABAL	10	18	18	GOOD	REMAIN	LD - 14
58	SABAL PALMETTO	SABAL	10	10	20	GOOD	REMAIN	LD - 14
59	SABAL PALMETTO	SABAL	9	10	19	GOOD	REMAIN	LD - 14
60	SABAL PALMETTO	SABAL	8	10	16	GOOD	REMAIN	LD - 14
61	SABAL PALMETTO	SABAL	8	10	18	GOOD	REMAIN	LD - 14
62	SABAL PALMETTO	SABAL	8	16	18	GOOD	REMAIN	LD - 14
63	SABAL PALMETTO	SABAL	8	10	18	GOOD	REMAIN	LD - 14
64	SABAL PALMETTO	SABAL	8	12	14	GOOD	REMAIN	LD - 14
65	QUERCUS VIRGINIANA	LIVE OAK	7.5	15	14	FAIR	REMOVE	LD - 14
66	QUERCUS VIRGINIANA	LIVE OAK	8	15	24	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

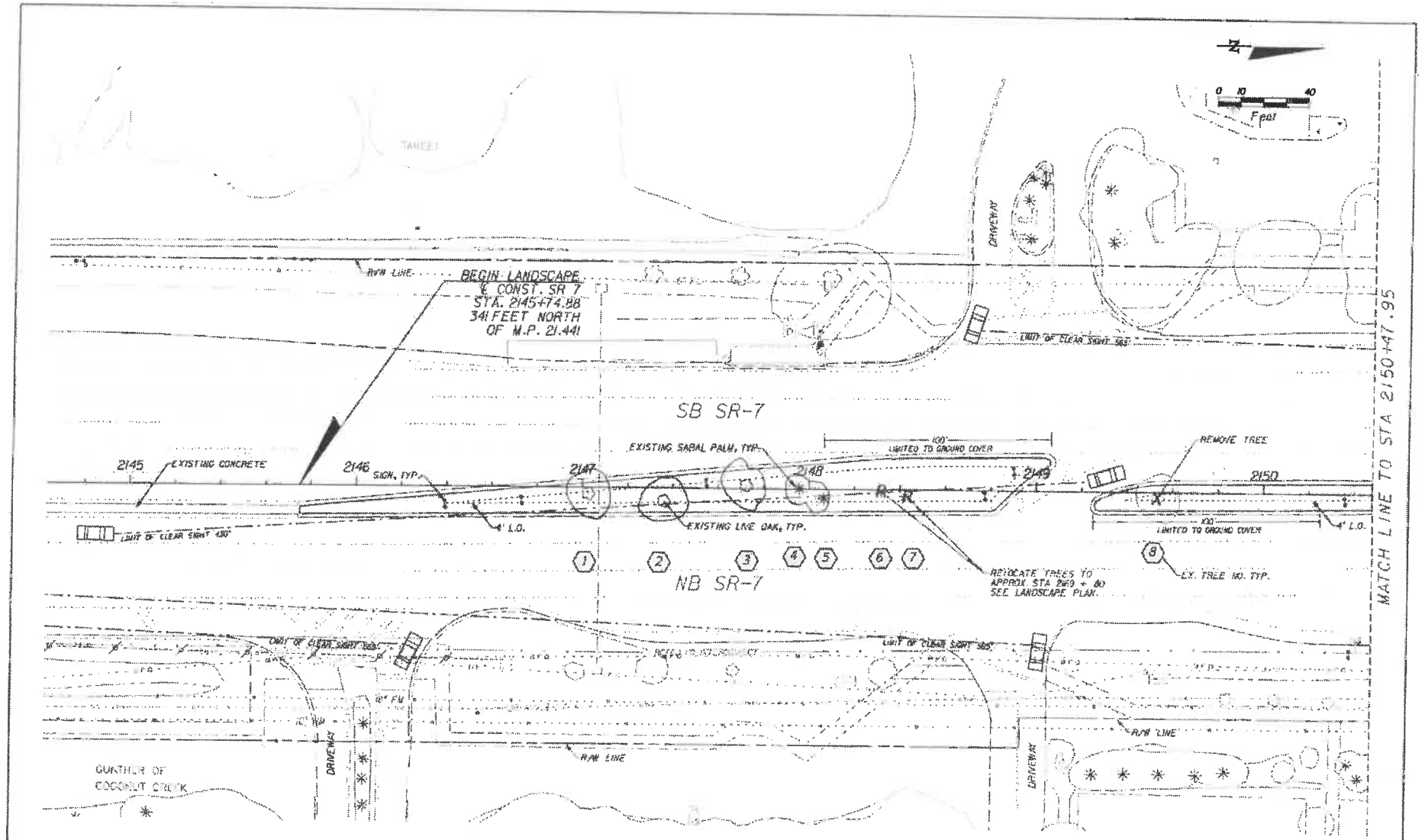
Coconut Creek — Butterfly Capital of the World®

KEITH & SCHNARS — A DIVISION OF KCI

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



REVISIONS						
DATE	DESCRIPTION					

Coconut Creek
Butterfly Capital of the World

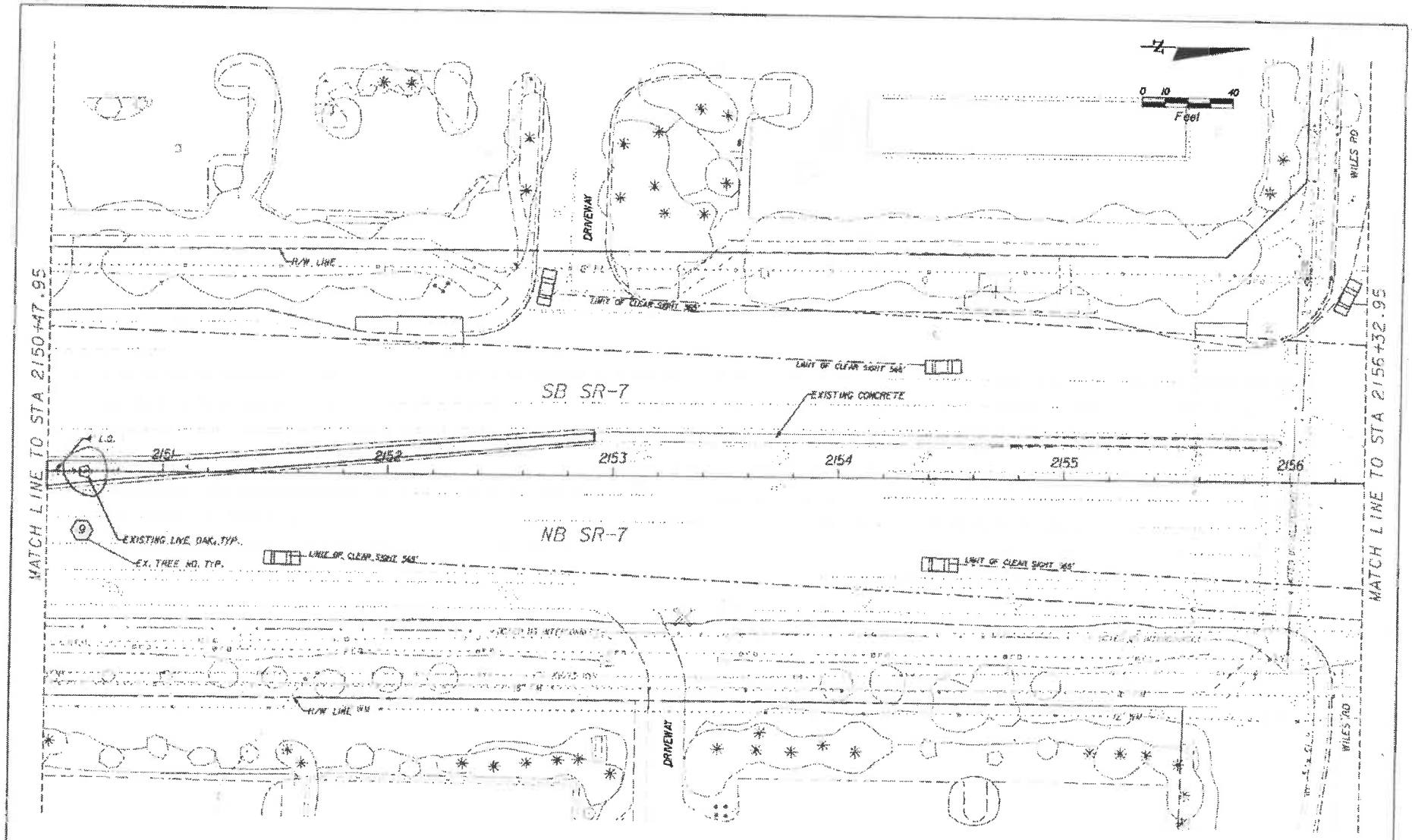
KS KEITH & SCHNARS
A DIVISION OF KCI

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-05



REVISIONS

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Coconut Creek
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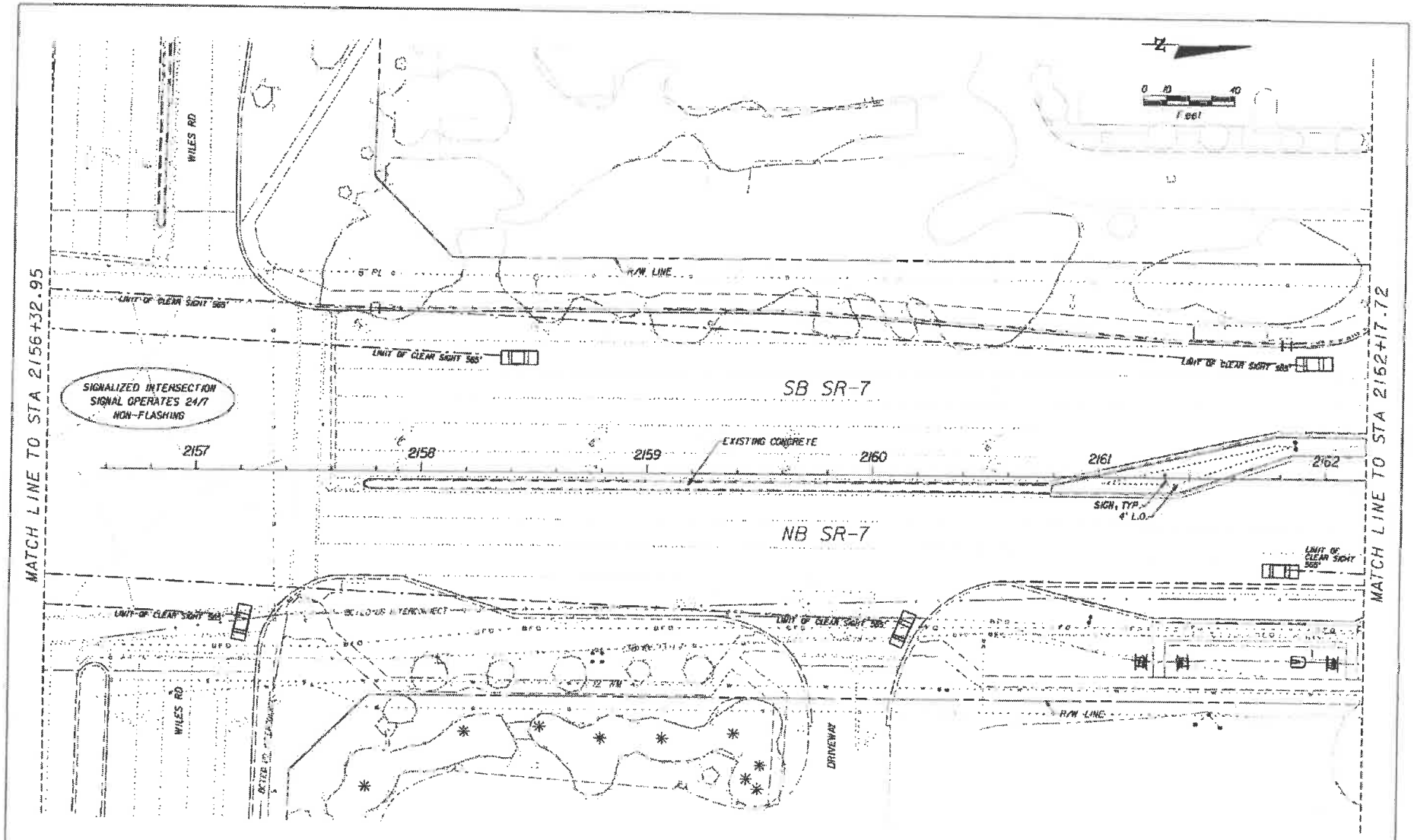
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

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	

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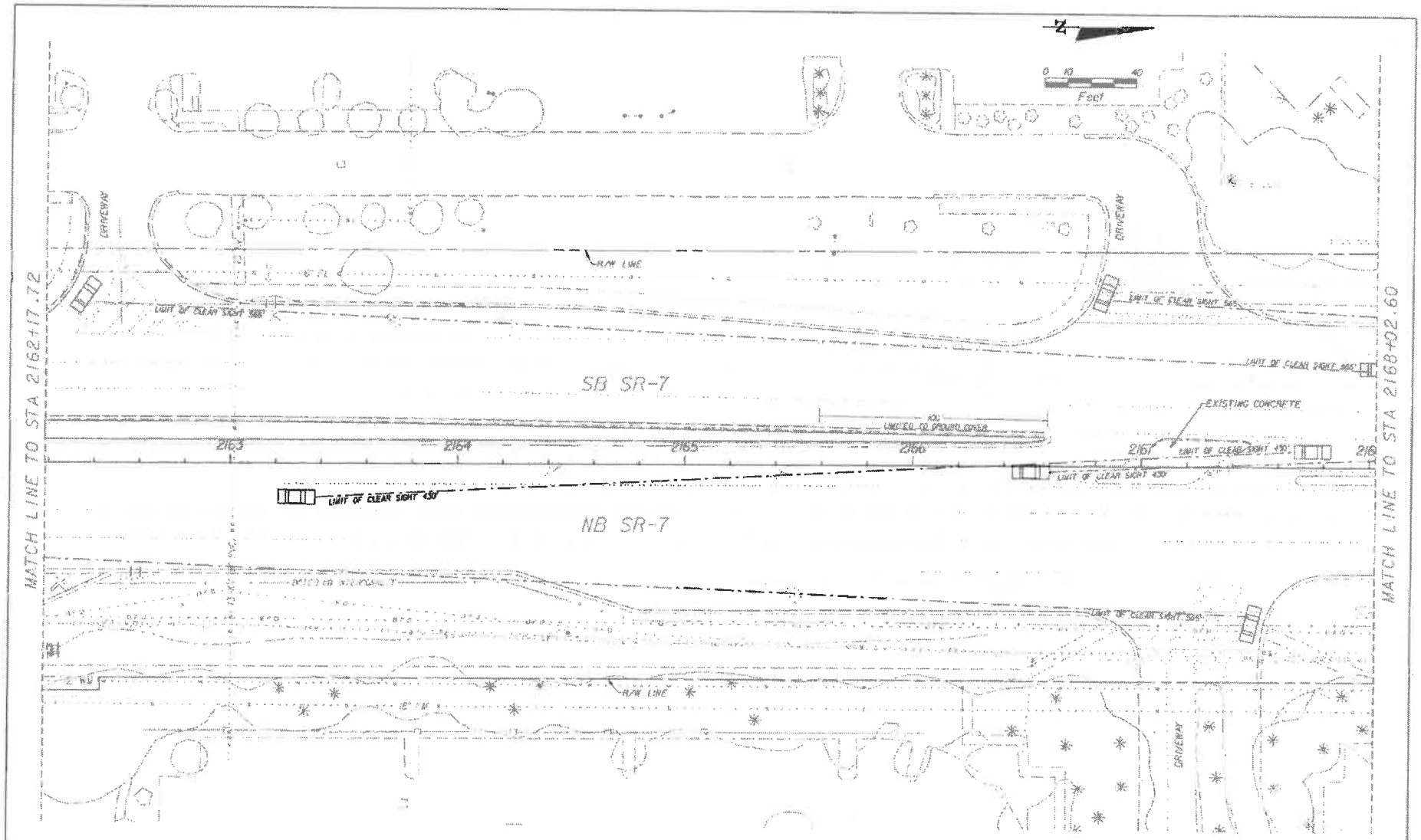
ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

TREE DISPOSITION PLAN

SHEET NO. LD-07



REVISIONS		
DATE	DESCRIPTION	

COCONUT CREEK
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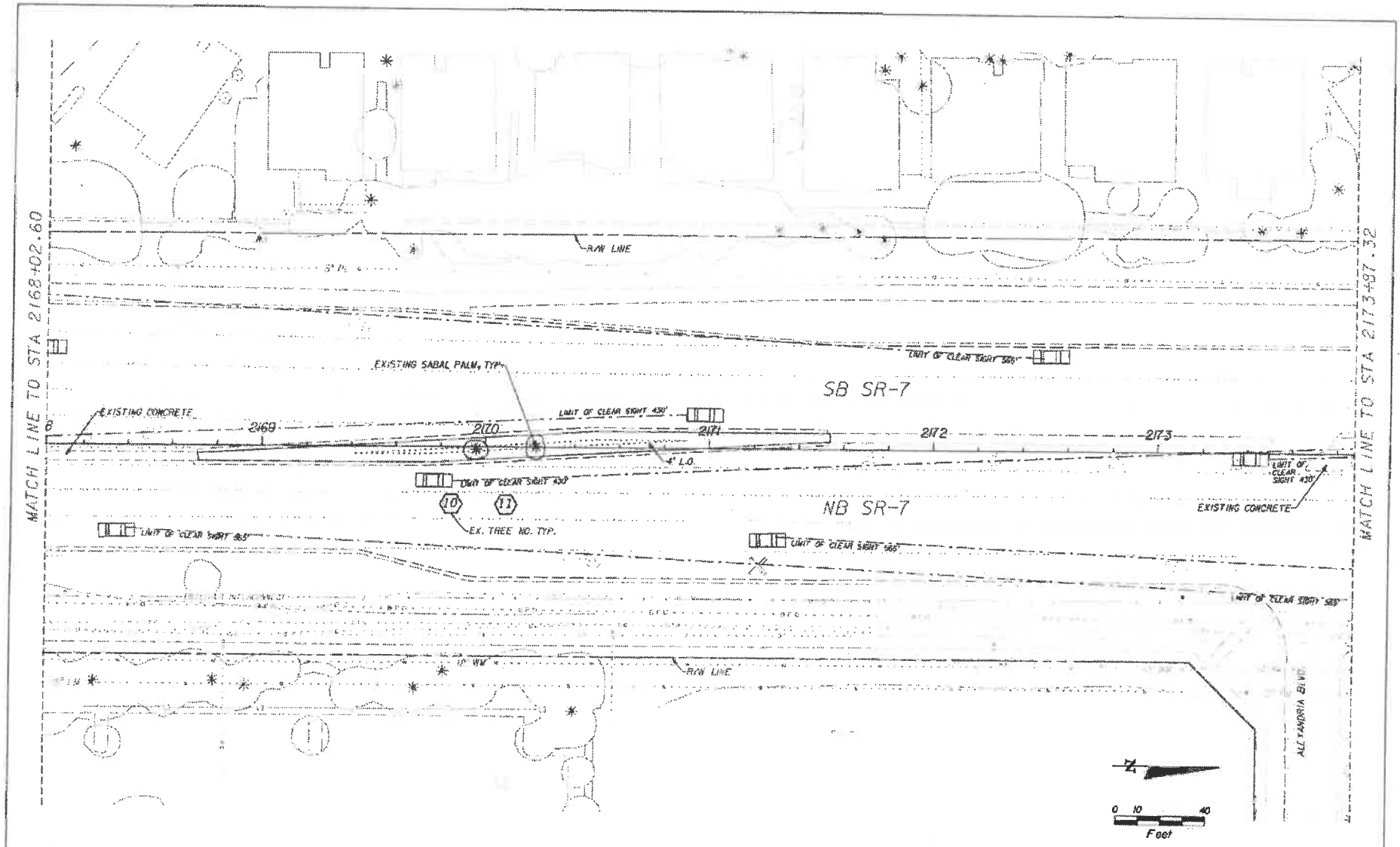
2560 N. Andrews Ave. Ft. Lauderdale, FL. 33309-2132 (954) 776-1616
LANDSCAPE ARCHITECT OF RECORD, TODD MOHLER, FLA. #0001501
CERTIFICATE OF AUTHORIZATION #1337

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



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6300 N. Andrews Ave, Ft. Lauderdale, FL 33309-2132 (954)776-1616
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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 PLAN

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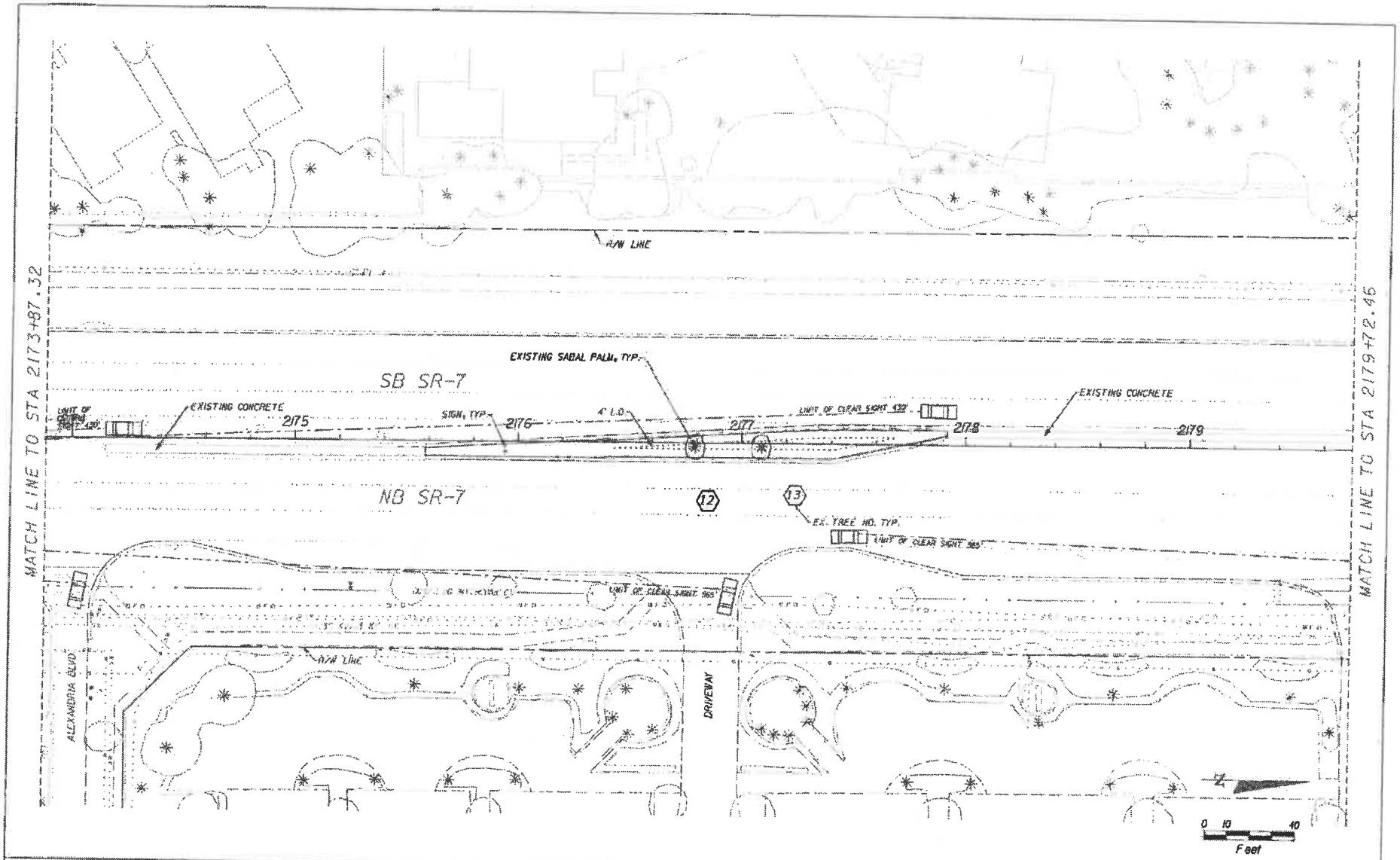

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	448935-1-74-01

TREE DISPOSITION PLAN

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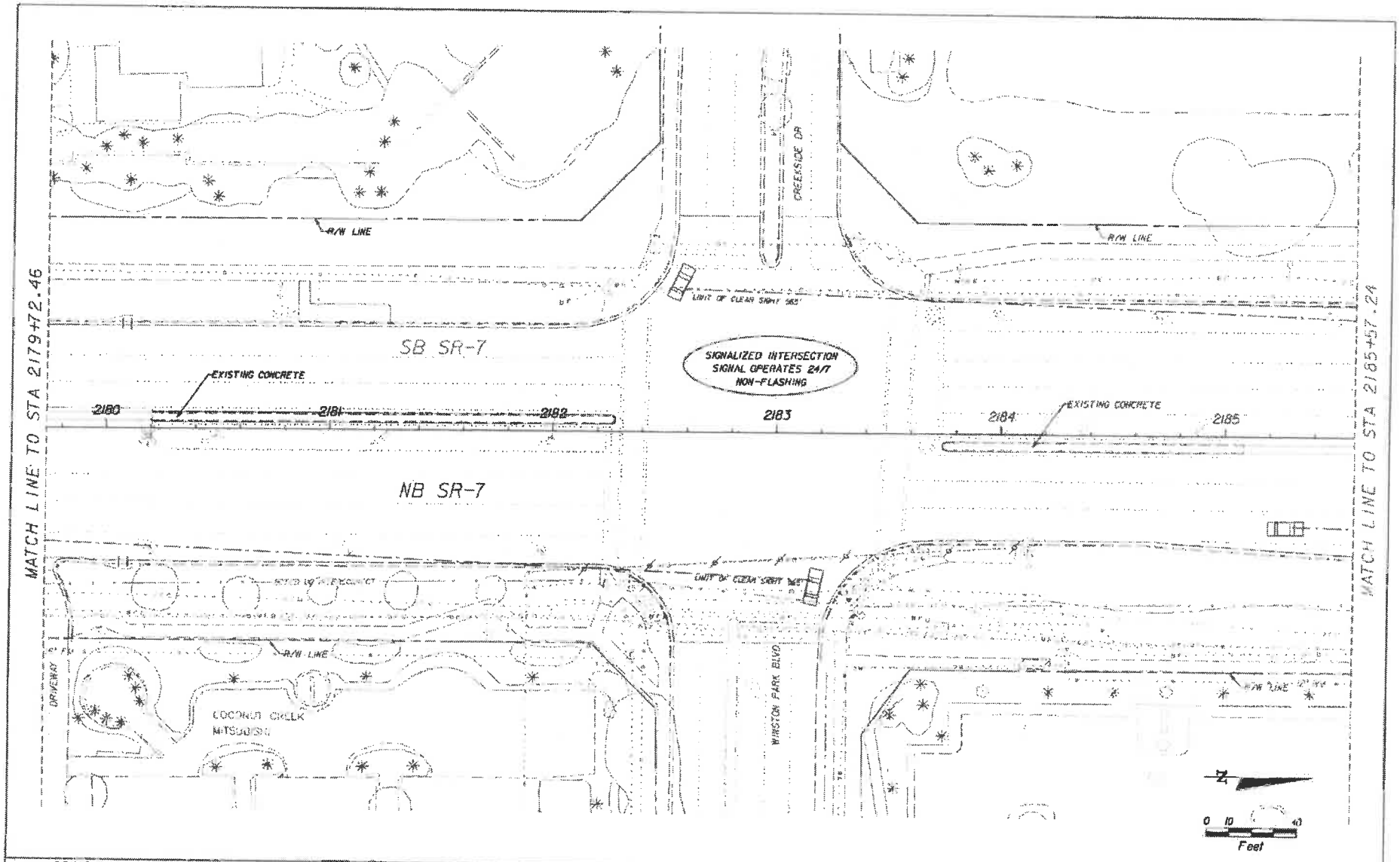

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3000 N. Andrews Ave., Ft. Lauderdale, FL 33308-3131 (954)776-1616
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

TREE DISPOSITION PLAN

SHEET NO. LD-11

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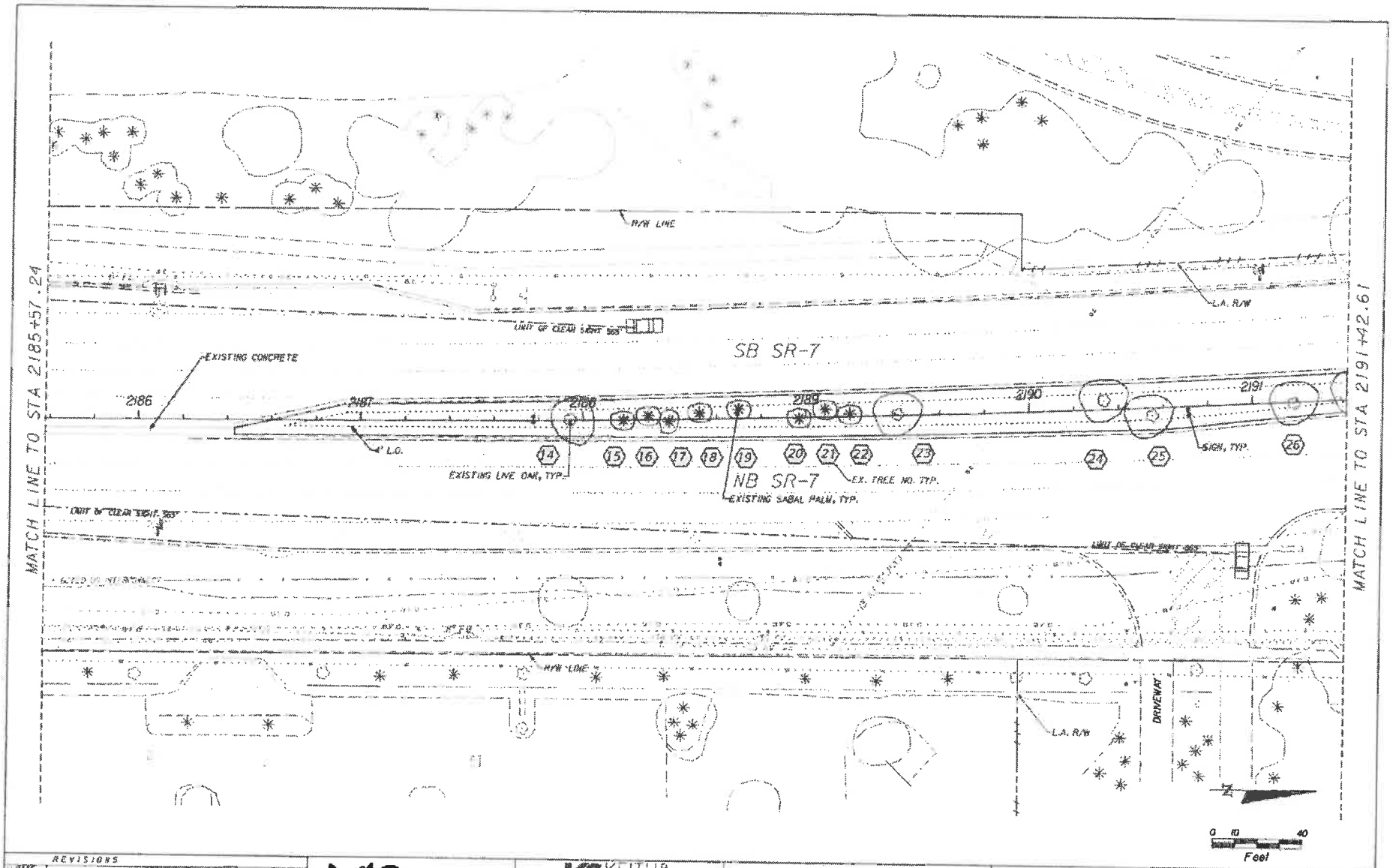

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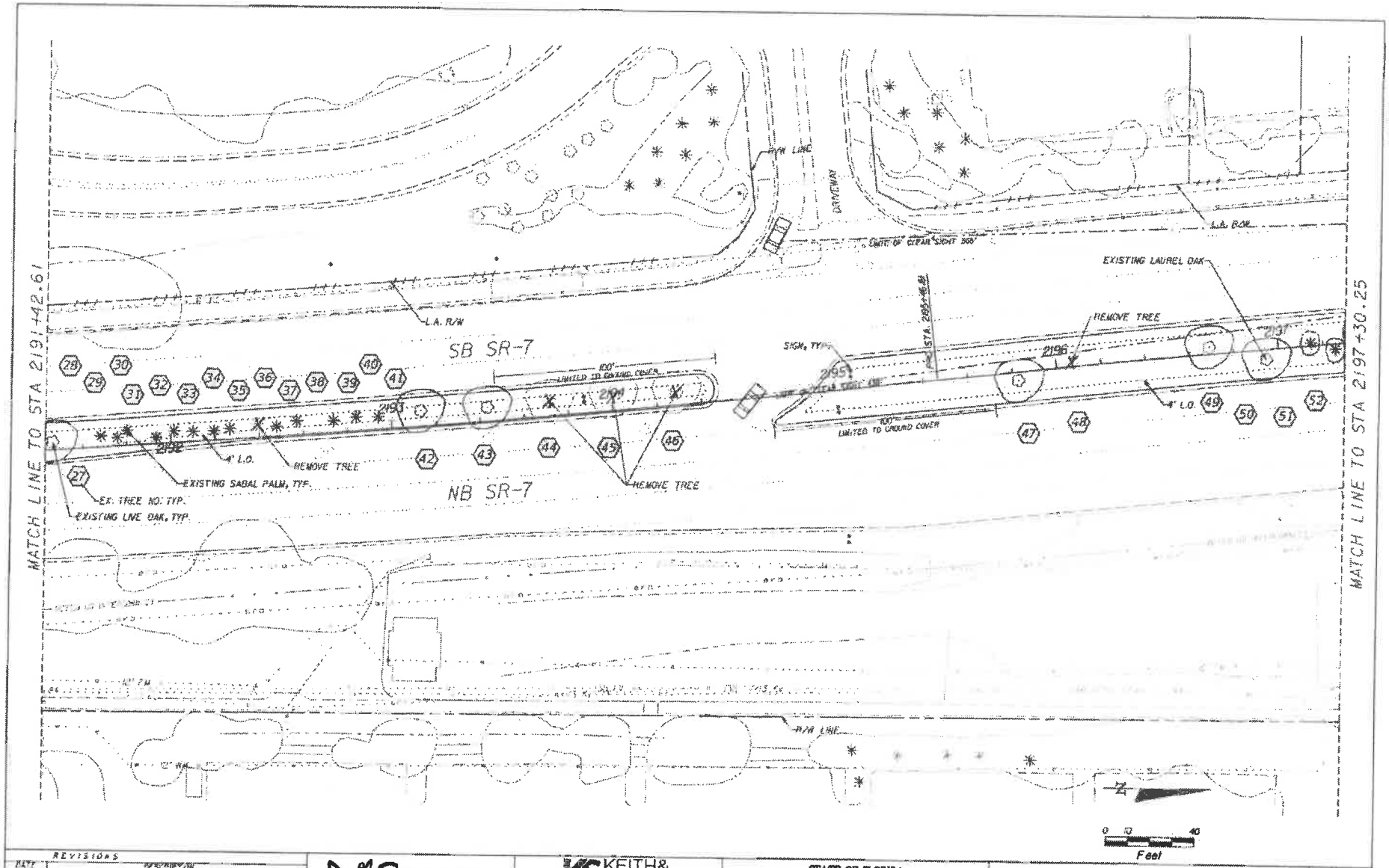
ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

TREE DISPOSITION PLAN

SHEET NO. LD-12

4/12/2019



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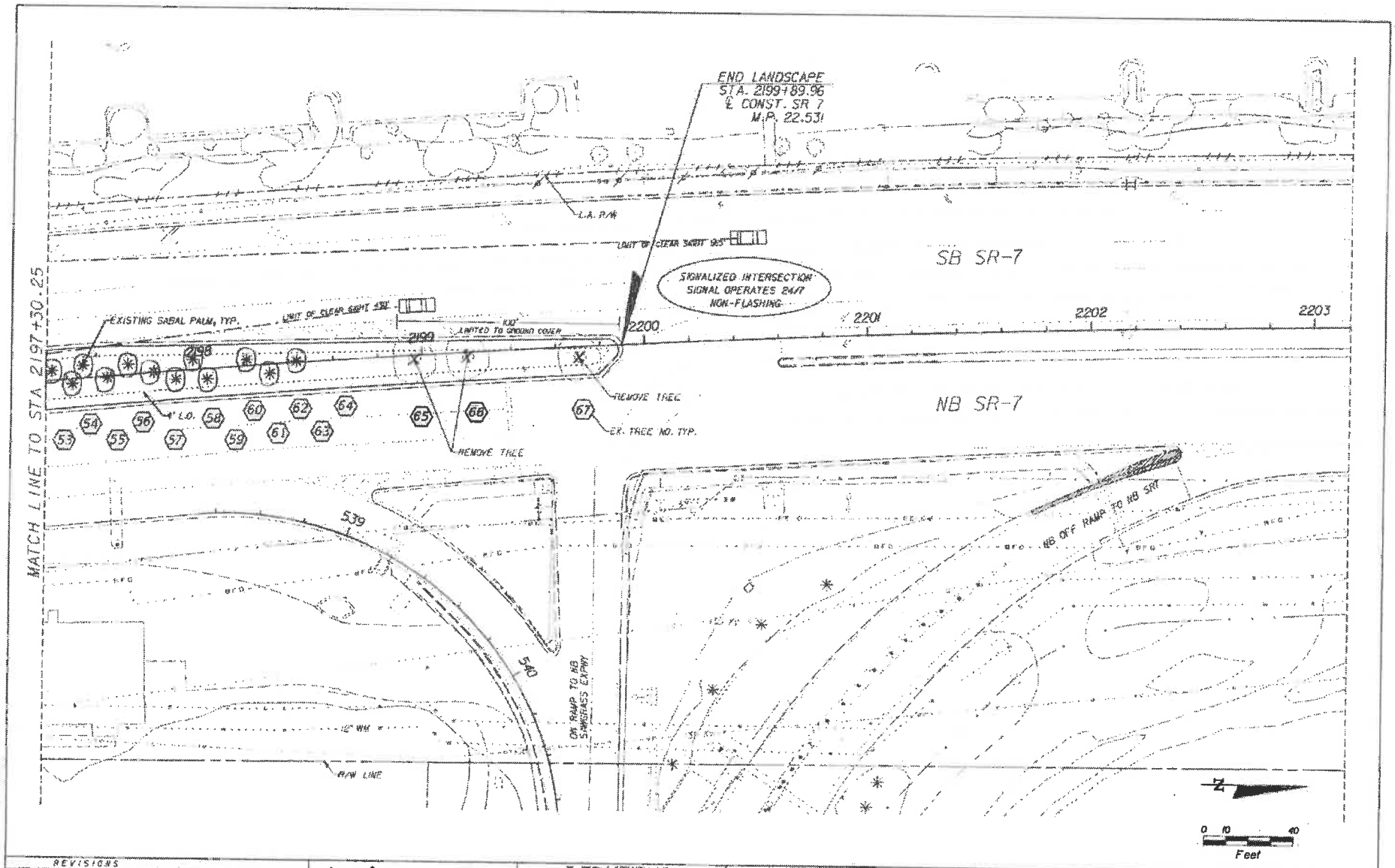
CERTIFICATE OF AUTHORIZATION #1737

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



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

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

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LANDSCAPE ARCHITECT OF RECORD: TODD MICHLER, R.L.A. #0001694
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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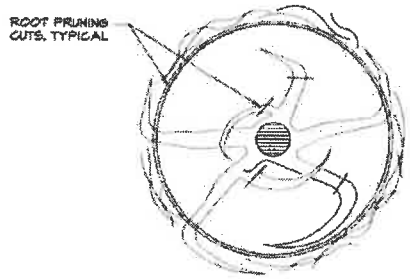
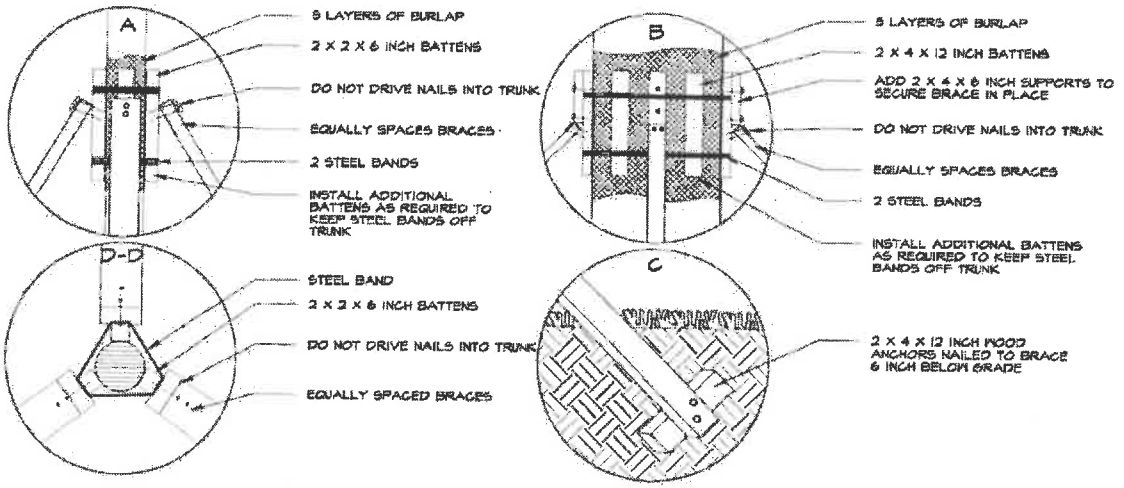
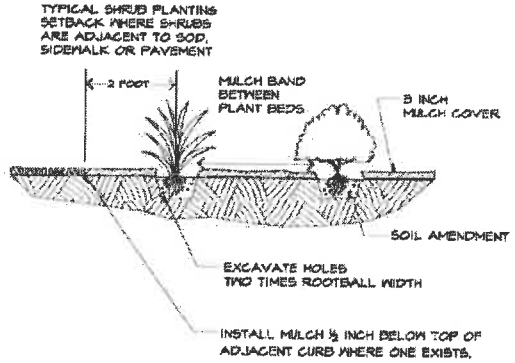
NOTE:
CUT CROSSING, DEFLECTING AND CIRCLING ROOTS BEFORE INSTALLATION. THIS MAY REQUIRE CUTTING ALL OF THE ROOTS AT THE ROOTBALL PERIMETER, RADIALLY PRUNING THE ROOTBALL TOP TO BOTTOM AND CUTTING INDIVIDUAL ROOTS.

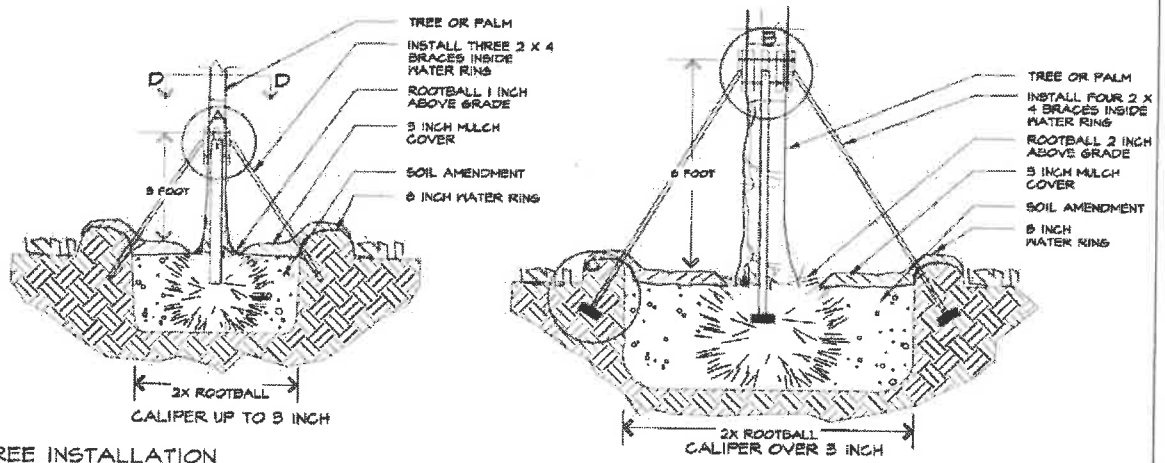


ROOT PRUNING REQUIREMENT





SHRUB INSTALLATION



TREE INSTALLATION

REVISIONS						
DATE	DESCRIPTION					

Coconut Creek
Butterfly Capital of the World

KS KEITH & SCHNARS
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1501 N. Andrews Ave, Ft. Lauderdale, FL 33309-2132 (954) 776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MOHLER, FLA. #0001664
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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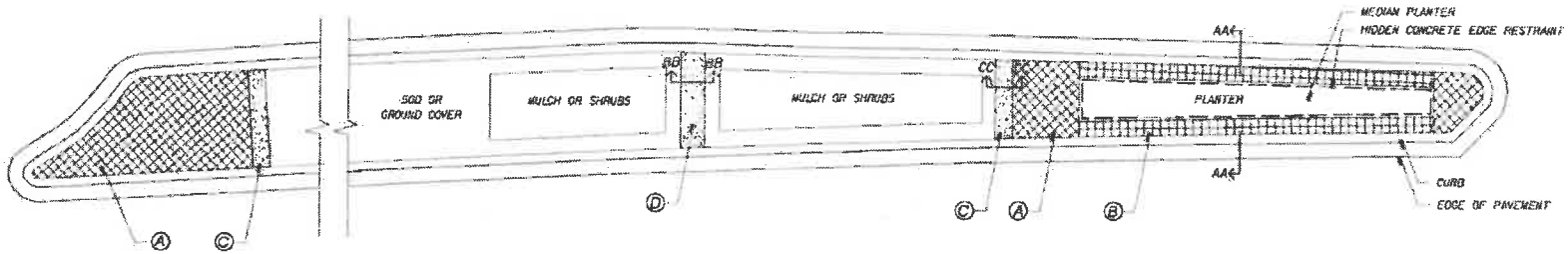


PAVER NOTES:

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.

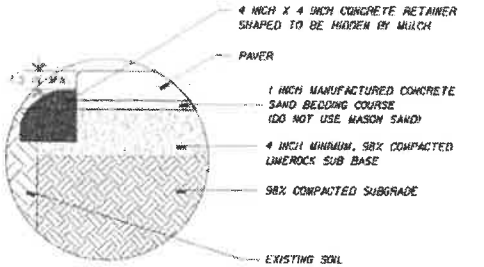
(C) 12 INCH WIDE X 8 INCH DEEP CONCRETE HEADER WITH BROOM FINISH

(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



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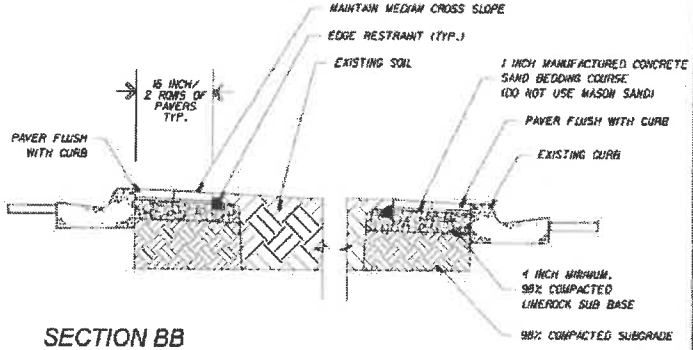

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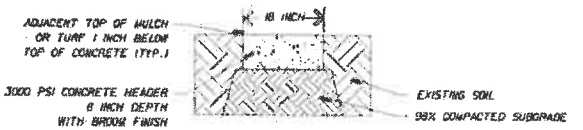

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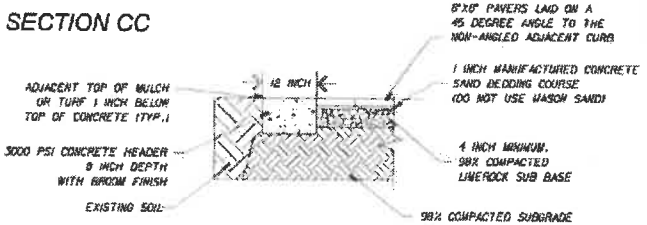

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REVISIONS	
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8280 N. Andrews Ave, Ft. Lauderdale, FL 33309-2132 (954)776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MOHR, ER. FLA. #0001494
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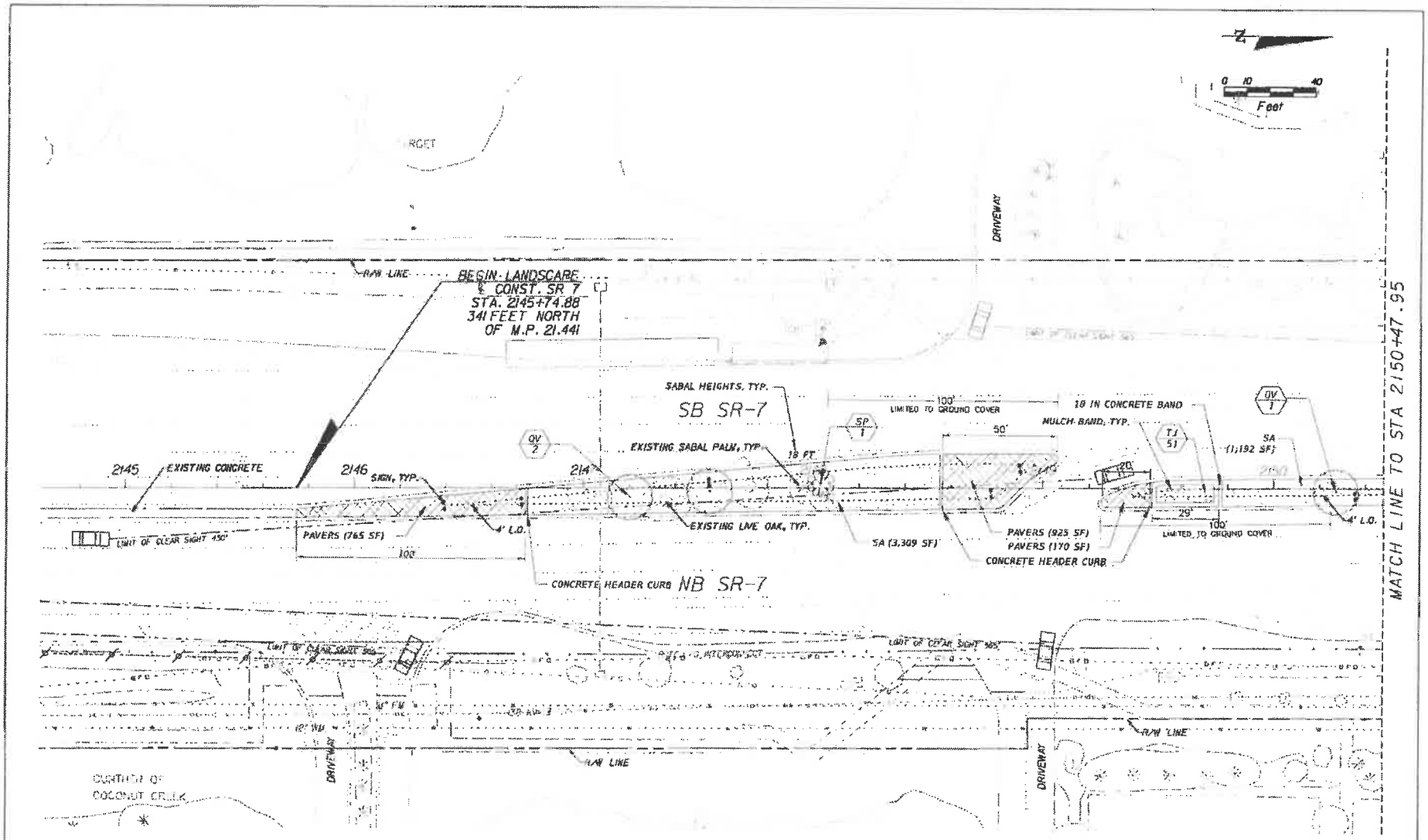
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

HARDSCAPE DETAILS

SHEET NO. LD-17

6/12/2018



DATE	REVISIONS DESCRIPTION

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CERTIFICATE OF AUTHORIZATION #1127

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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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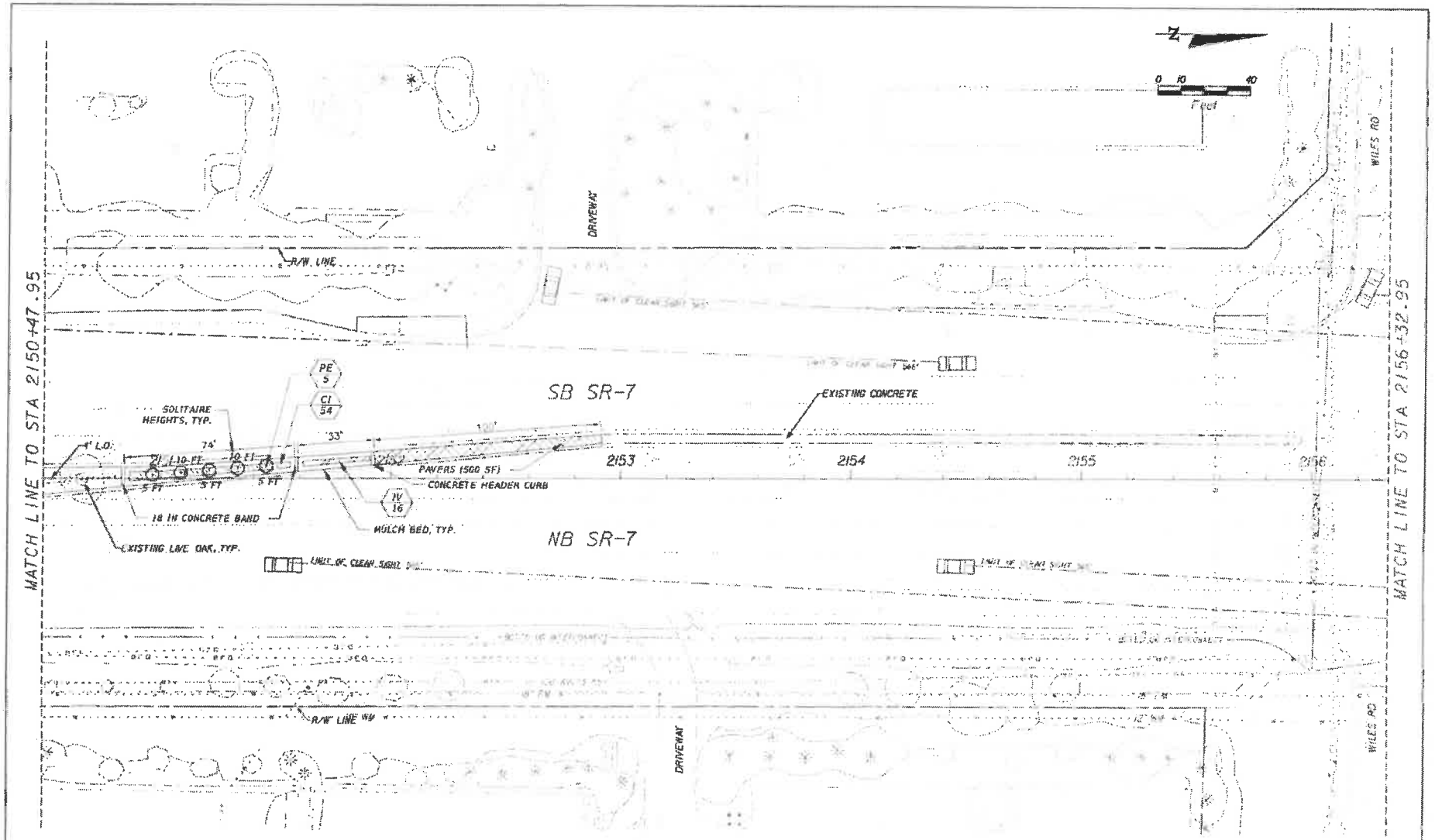

REVISIONS	
DATE	DESCRIPTION

Coconut Creek
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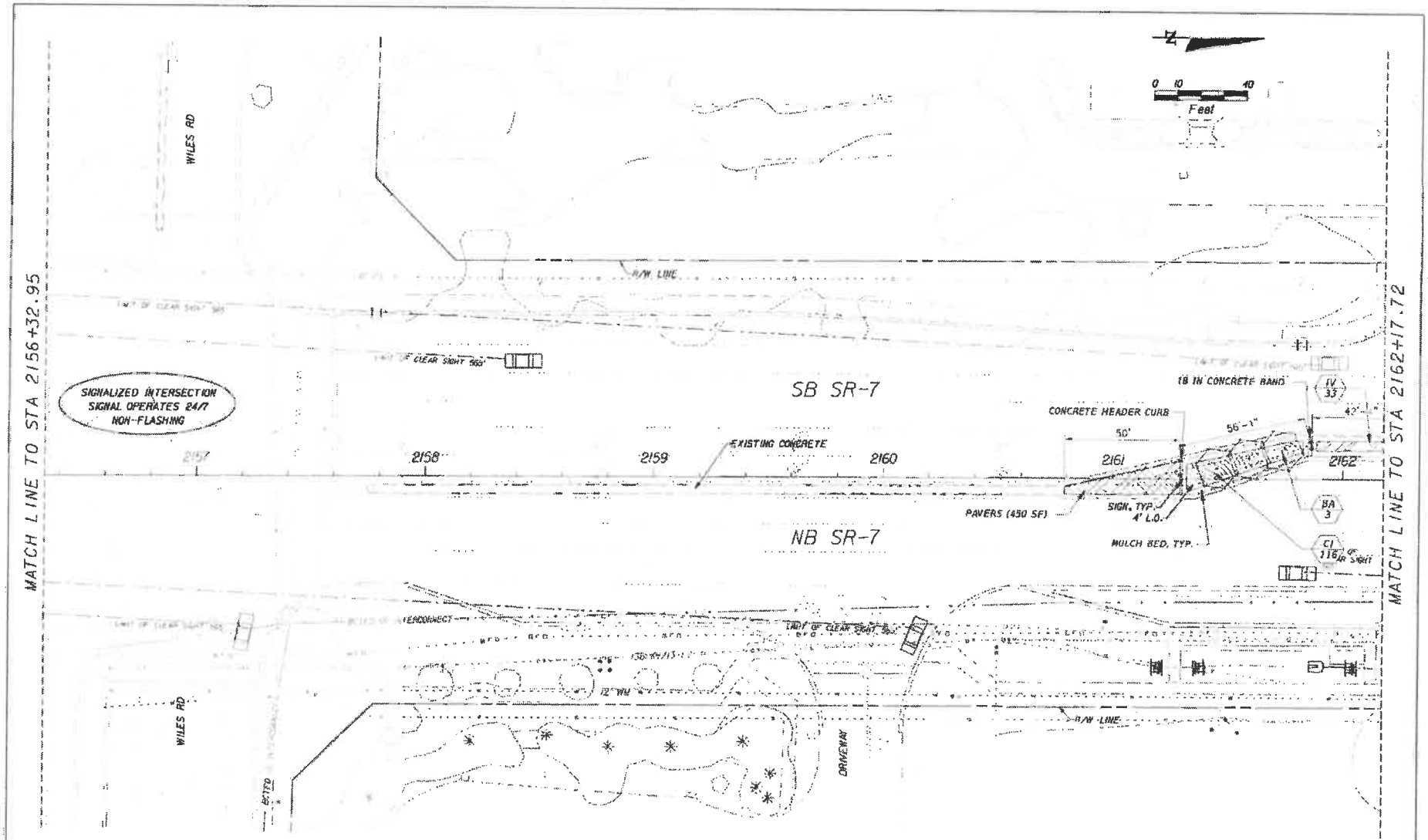
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

DIST. NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	446935-1-74-01

LANDSCAPE PLAN

SHEET NO.
LD-19



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DATE	DESCRIPTION

Coconut Creek
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STATE OF FLORIDA
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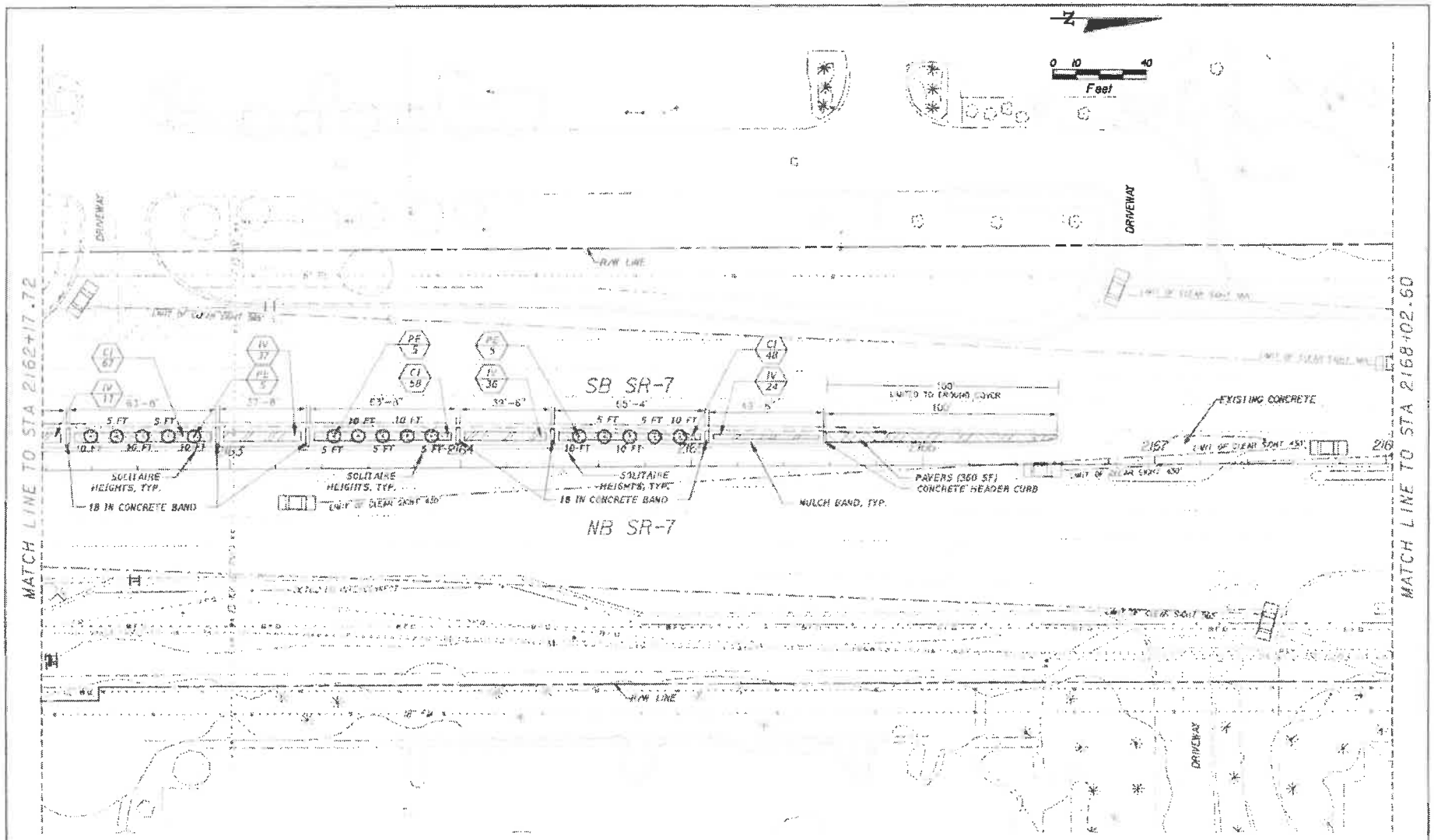
ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

LANDSCAPE PLAN

SHEET NO. LD-20



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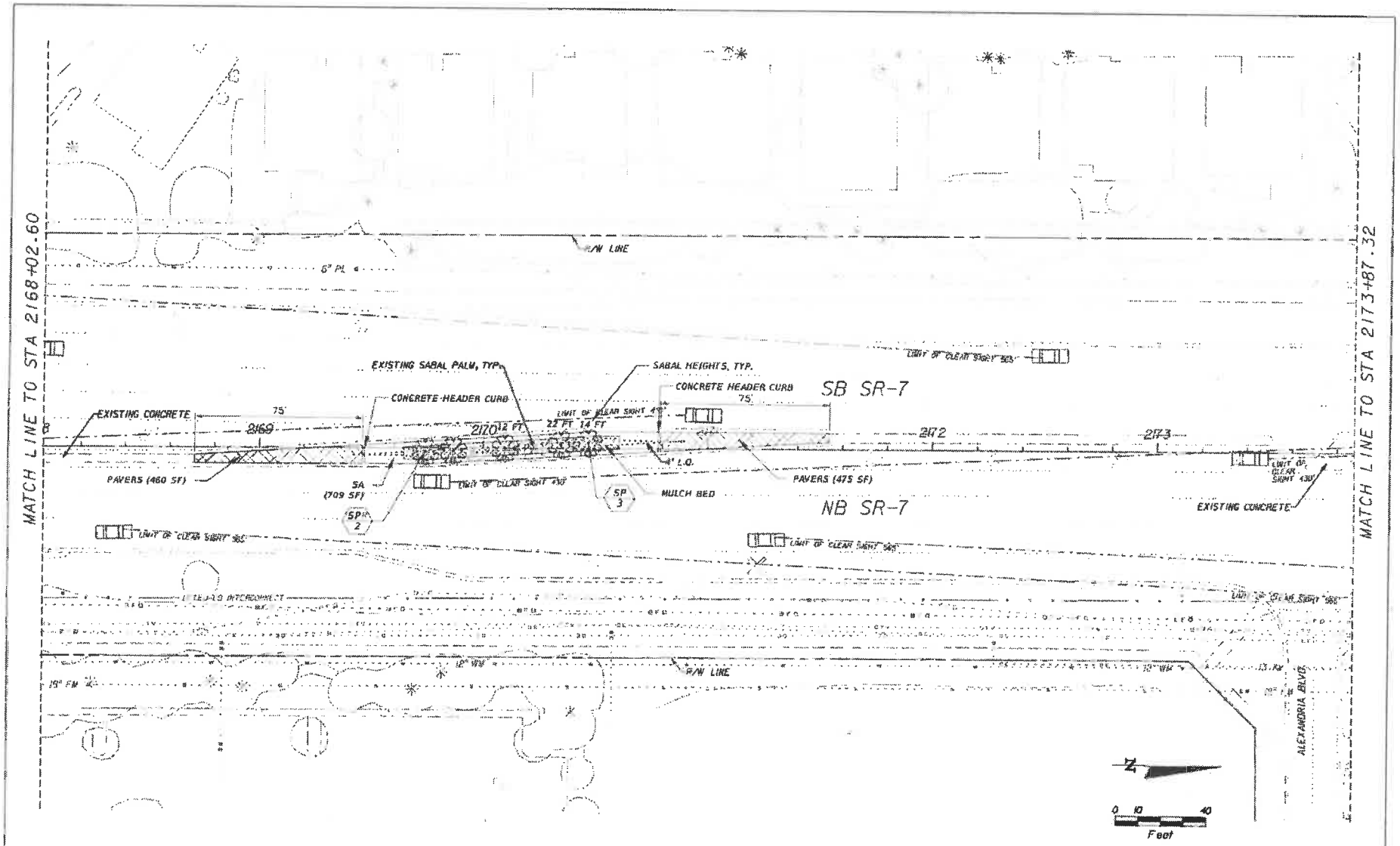
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

LANDSCAPE PLAN

SHEET NO.
LD-21



REVISIONS	
DATE	DESCRIPTION

Coconut Creek
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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

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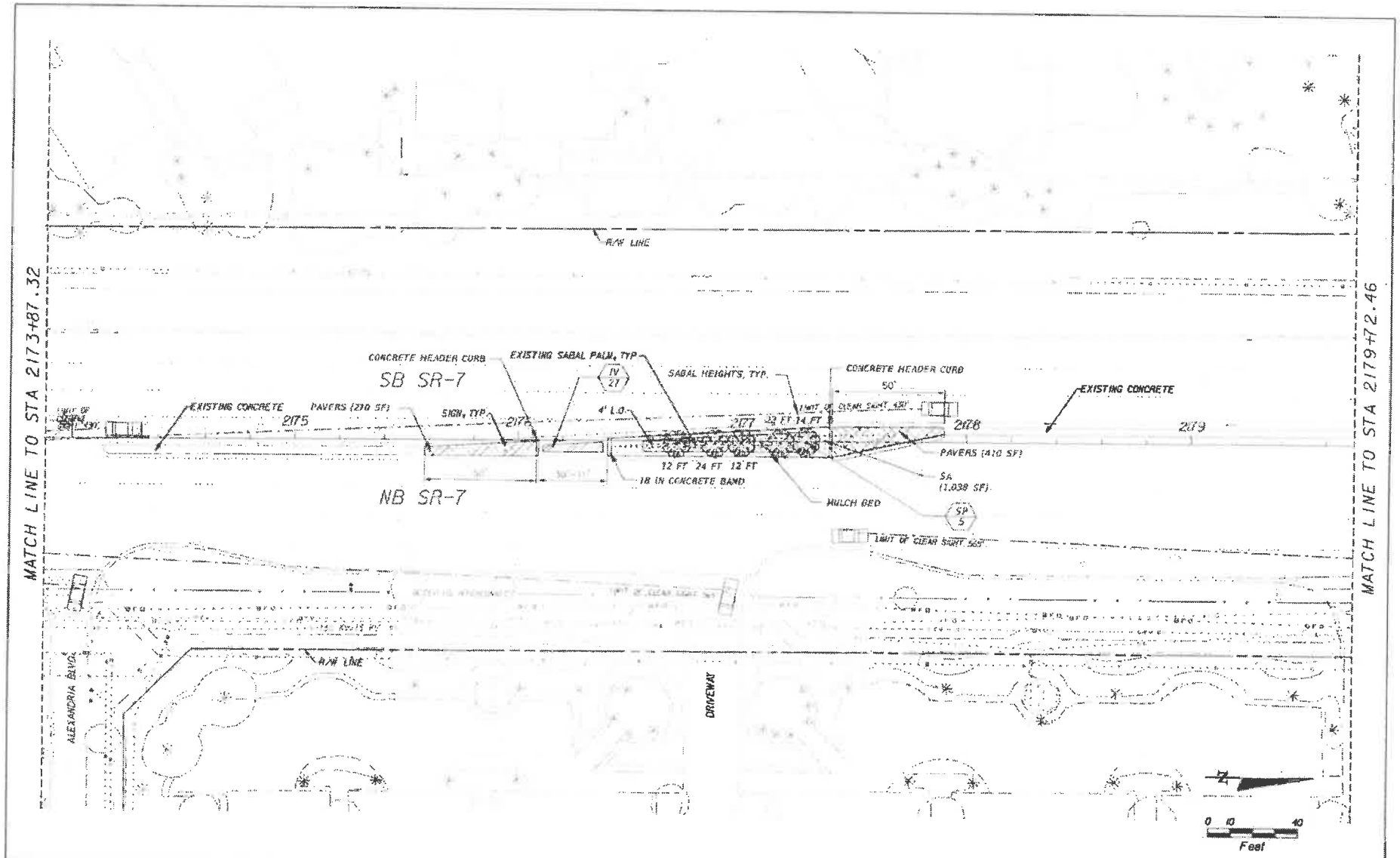

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DATE	DESCRIPTION

Coconut Creek
Butterfly Capital of the World®

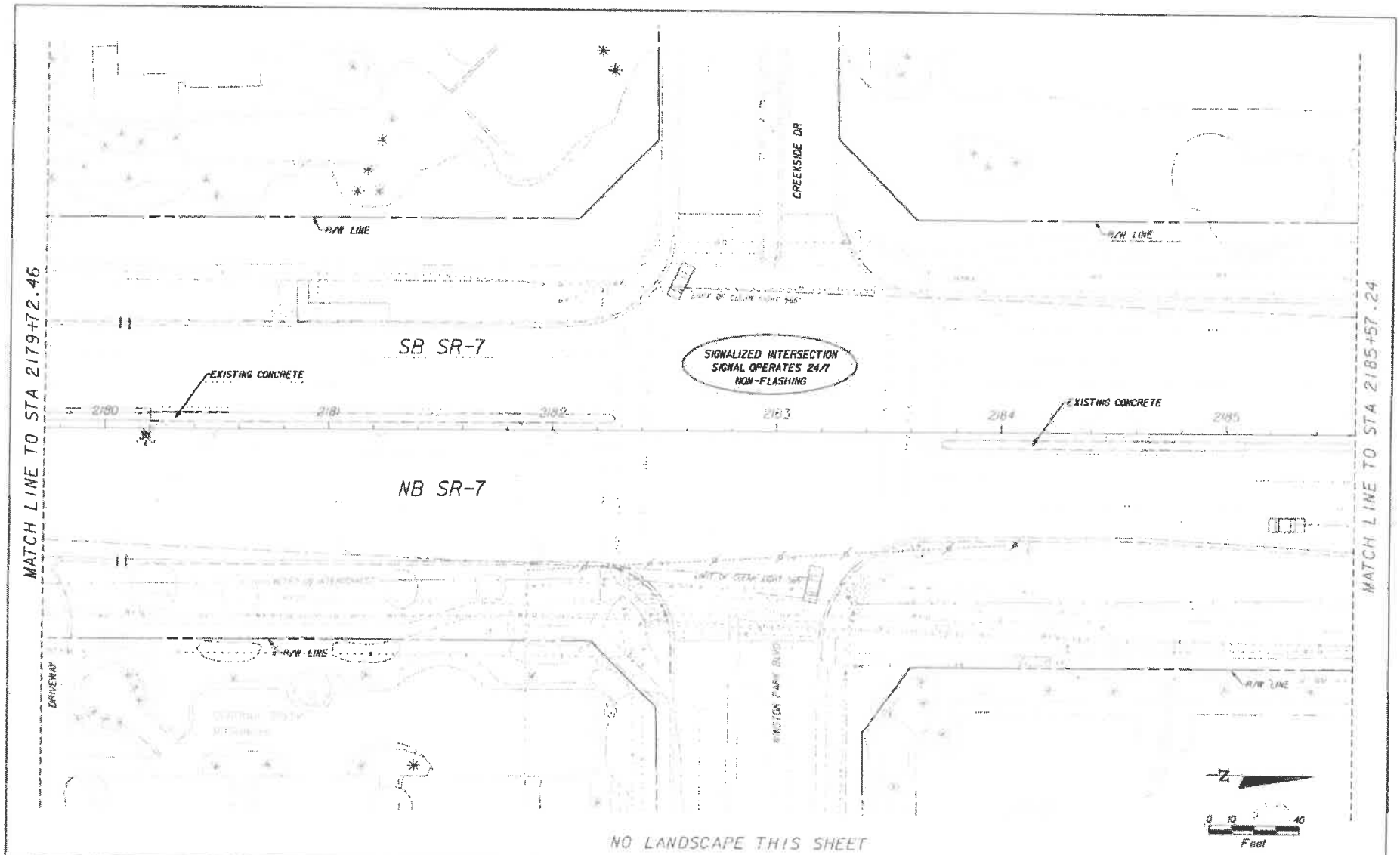
KS KEITH & SCHNARS
A DIVISION OF KCI
6500 N. Andrews Ave, Ft. Lauderdale, FL 33309-2132 (954)770-1010
LANDSCAPE ARCHITECT OF RECORD, TODD MOHLER, FLA. 0300184
CERTIFICATE OF AUTHORIZATION #1337

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-23



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Coconut Creek
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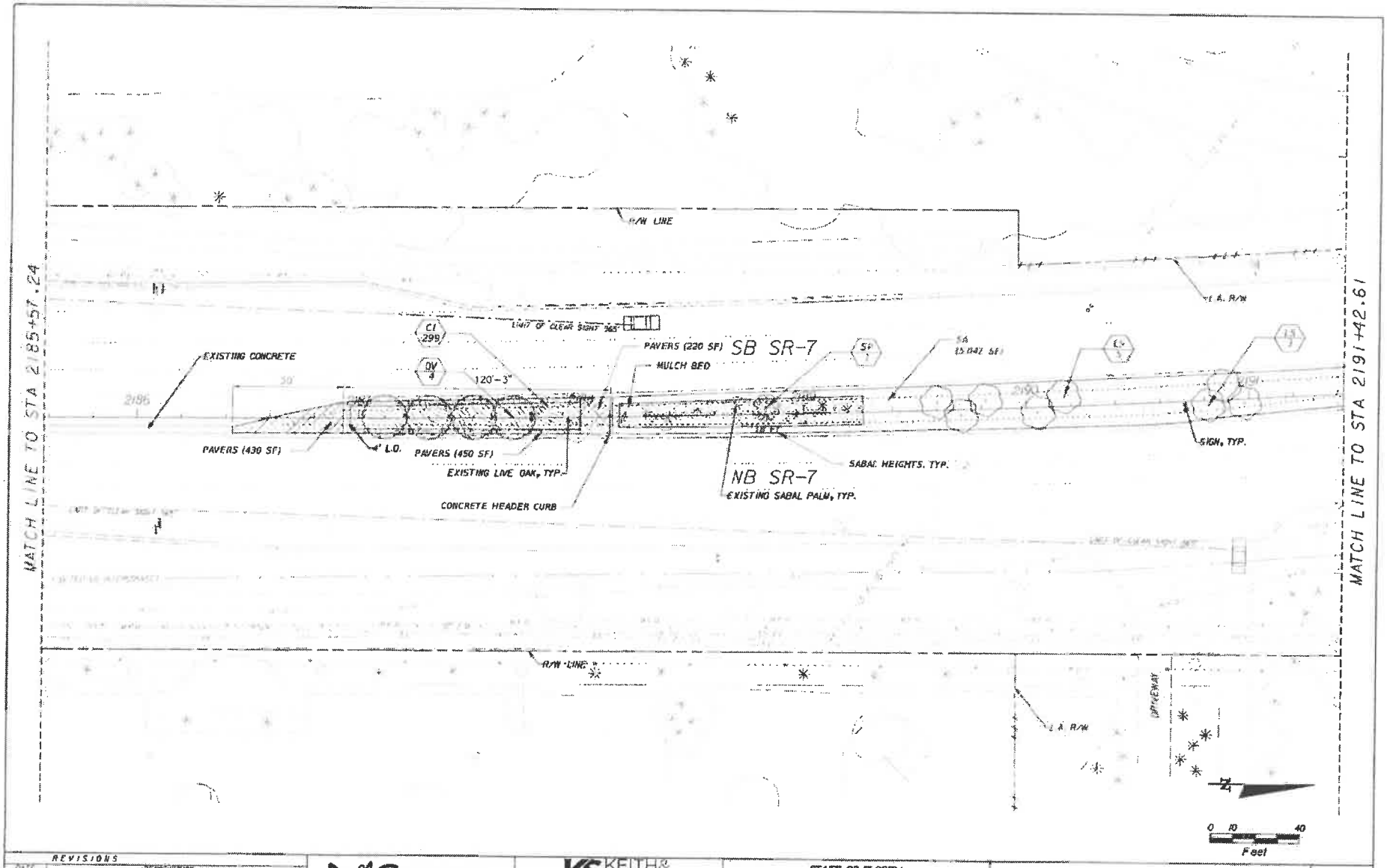
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

LANDSCAPE PLAN

SHEET NO.
LD-24



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A DIVISION OF KCI
6500 N. Andrews Ave, Ft. Lauderdale, FL 33308-2132 (954)776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MOHLER, PLA, 90001694
CERTIFICATE OF AUTHORIZATION 91337

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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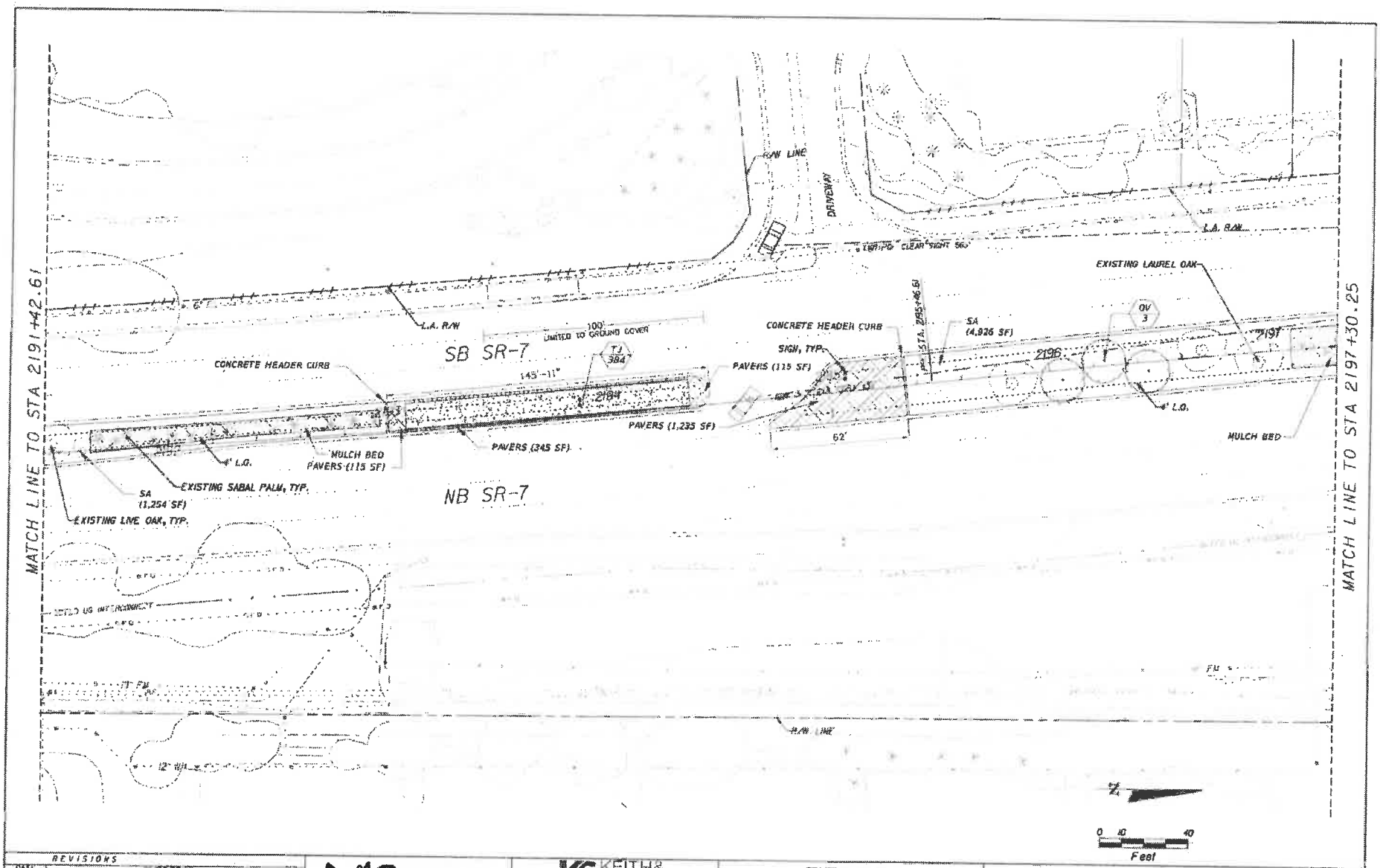

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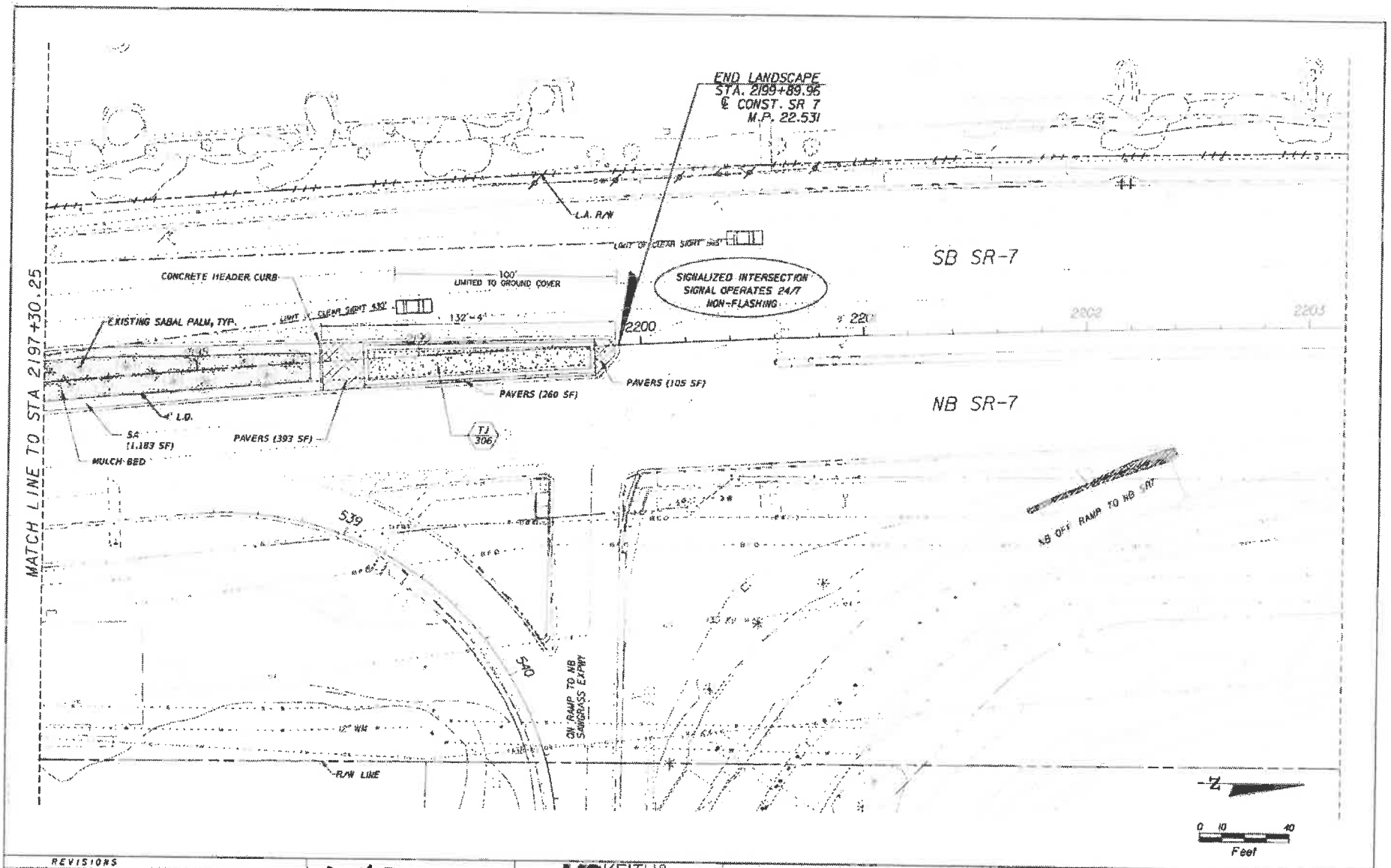
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

LANDSCAPE PLAN

SHEET NO. LD-26



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ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

LANDSCAPE PLAN

SHEET NO.
LD-27

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 561-807-0240 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 TETTORIS 954-545-6612

IRRIGATION SYMBOL KEY

SYMBOL	DESCRIPTION
5 FT (Q, H, F); 8 FT (Q, T, H, F); 10 FT (Q, T, H, F); STRIP (EST, 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 (4V, 9V, 18V); STRIP (EST, LCS, RCS, CST, SST)	6 INCH POP UP SPRAY HEAD, PRESSURE REGULATED, MATCHED PRECIPITATION RATE NOZZLES AS INDICATED.
0.50; 1.0	BUBBLER ASSEMBLY (WITH GPM FLOW RATE INDICATED) 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 5DSV 200/3 D.W. 6-24 Z	EA	1
ZONE CONTROL VALVE	RAINBIRD PESB	EA	19
MAINLINE ISOLATION VALVE	LEEMCO LMV-333B	EA	5
AIR/VACUUM RELIEF VALVE	BERMAD C11 COMBINATION AIR VALVE (2 INCH) IR-2IN C11-SP P-D-NM-T	EA	2
VALVE BOX	OLD CASTLE TIER 8 RATED FIBRELYTE FL36, 17 X 30 X 12 INCH DEEP	EA	29
PULL BOX	OLD CASTLE TIER 8 RATED FIBRELYTE FL12, 12 X 19 X 12 INCH DEEP	EA	2
VALVE BOX IDENTIFICATION	ALUMINUM NUMBERS / LETTERS	EA	49
PVC TOE NIPPLES	PVC SCHEDULE 80	EA	61
#57 ROCK	BELOW VALVE BOXES PER DETAIL	CF	116
FILTER FABRIC	BELOW VALVE BOXES PER DETAIL	SF	406
MAINLINE	PVC CLASS 200 GASKETED - 3 INCH	LF	3,500
MAINLINE FITTINGS	LEEMCO 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	34
MAINLINE LOCATION TAPE	2 INCH DETECTABLE WARNING TAPE	LF	3,500
CONTROL WIRE CONDUIT	2 INCH PVC SCHEDULE 40, GREY	LF	3,500
CONTROL WIRE COMMON	10 AWG. COPPER, TYPE UF-82 THHN/THWN COMMON WIRE	LF	3,700
CONTROL WIRE	12 AWG. COPPER, TYPE UF-83 THHN/THWN HOT WIRES	LF	45,900
	INSTALL RED COLOR FOR HOT WIRES		
	INSTALL BLUE COLOR FOR SPARE WIRES		
	INSTALL WHITE COLOR FOR COMMON WIRE		
WIRE CONNECTORS	3M-DBRY-6 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	4,080
SPRAY HEADS	RAINBIRD 1806-PRS WITH MPR NOZZLES	EA	312
	RAINBIRD 1812-PRS WITH MPR NOZZLES OR RISERS	EA	132
BUBBLERS	RAINBIRD 1401 SERIES 0.25 GPM PRESSURE COMPENSATING	EA	64
	RAINBIRD 1402 SERIES 0.50 GPM PRESSURE COMPENSATING	EA	40

VALVE SCHEDULE

VALVE NUMBER	MAXICOM SEQUENCE	SIZE	TYPE	GPM	VALVE NUMBER	MAXICOM SEQUENCE	SIZE	TYPE	GPM
1A	1	1-1/2"	Turf Spray	38.91	6	6	1-1/2"	Turf Spray	55.4
1B	1	1"	Turf Spray	22.2	7	7	1-1/2"	Turf Spray	55.49
2	2	1-1/2"	Turf Spray	43.02	8	8	1-1/2"	Turf Spray	58.74
3A	3	1"	Shrub Spray	12.83	9	9	1-1/2"	Turf Spray	60.37
3B	3	1"	Shrub Spray	19.05	10A	10	1"	Bubbler	9.25
4A	4	1"	Shrub Spray	13.64	10B	10	1"	Bubbler	10.5
4B	4	1"	Shrub Spray	15.48	10C	10	1"	Bubbler	2.5
5A	5	1-1/2"	Shrub Spray	41.17	10D	10	1"	Bubbler	2.5
5B	5	1"	Shrub Spray	2.43	10E	10	1"	Bubbler	12.5
					10F	10	1"	Bubbler	3

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COCONUT CREEK
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

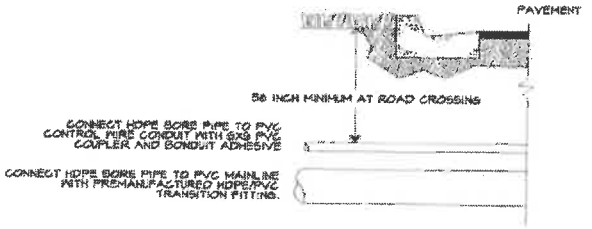
ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

IRRIGATION NOTES & IRRIGATION SCHEDULE

SHEET NO. LD-28

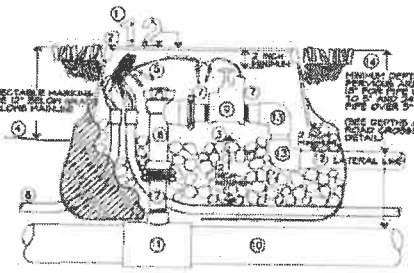
① INSTALL HDPE DR-11 UNDER ROADWAYS AND OTHER IMPERVIOUS AREAS

② ROAD TRENCHING ONLY PERMITTED WITH WRITTEN APPROVAL. ROAD TRENCHING REQUIRES BACKFILLING WITH FLOWABLE FILL



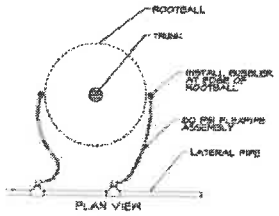
ROAD CROSSING

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

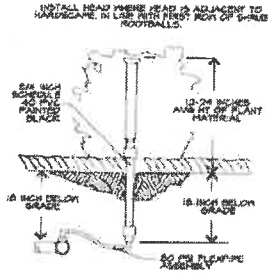


⑩ MAINLINE PIPE
⑪ MAINLINE FITTINGS
⑫ LATERAL LINE PIPE; PVC SCHEDULE 40 INSTALL LABELS FACING UP
⑬ LATERAL LINE FITTINGS; PVC SCHEDULE 40
⑭ PIPE DEPTH REQUIREMENTS

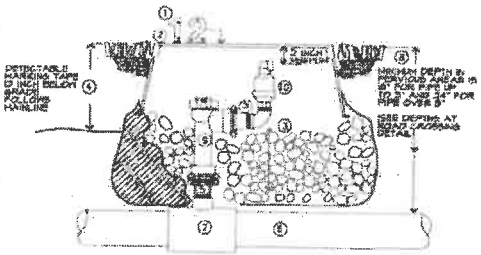
REMOTE CONTROL VALVE



TREE BUBBLER

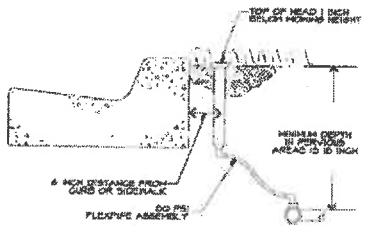


IRRIGATION HEAD IN PLANT BED



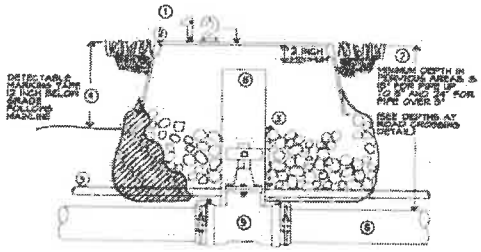
① ALUMINUM VALVE IDENTIFICATION NUMBER, SCREWED IN PLACE
② VALVE BOX
③ VALVE SUMP; 12 INCHES DEEP FILLED WITH ST GRAVEL AND WRAPPED IN FILTER FABRIC
④ DETECTABLE MARKING TAPE;
⑤ SCHEDULE 80 PVC TOE NIPPLE INSTALL NO MALE ADAPTERS
⑥ MAINLINE PIPE
⑦ MAINLINE FITTINGS
⑧ PIPE DEPTH REQUIREMENTS
⑨ RIGHT ANGLE 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

REVISIONS							
DATE	DESCRIPTION						

Coconut Creek
BUTTERFLY CAPITAL OF THE WORLD

KS KEITH & SCHNARS
A DIVISION OF KCI

8280 W. Sunrise Blvd, Ft. Lauderdale, FL 33322 (954) 916-1202
LANDSCAPE ARCHITECT OF RECORD: TODD MOWERY, RLA #0001044
CERTIFICATE OF AUTHORIZATION #LC27

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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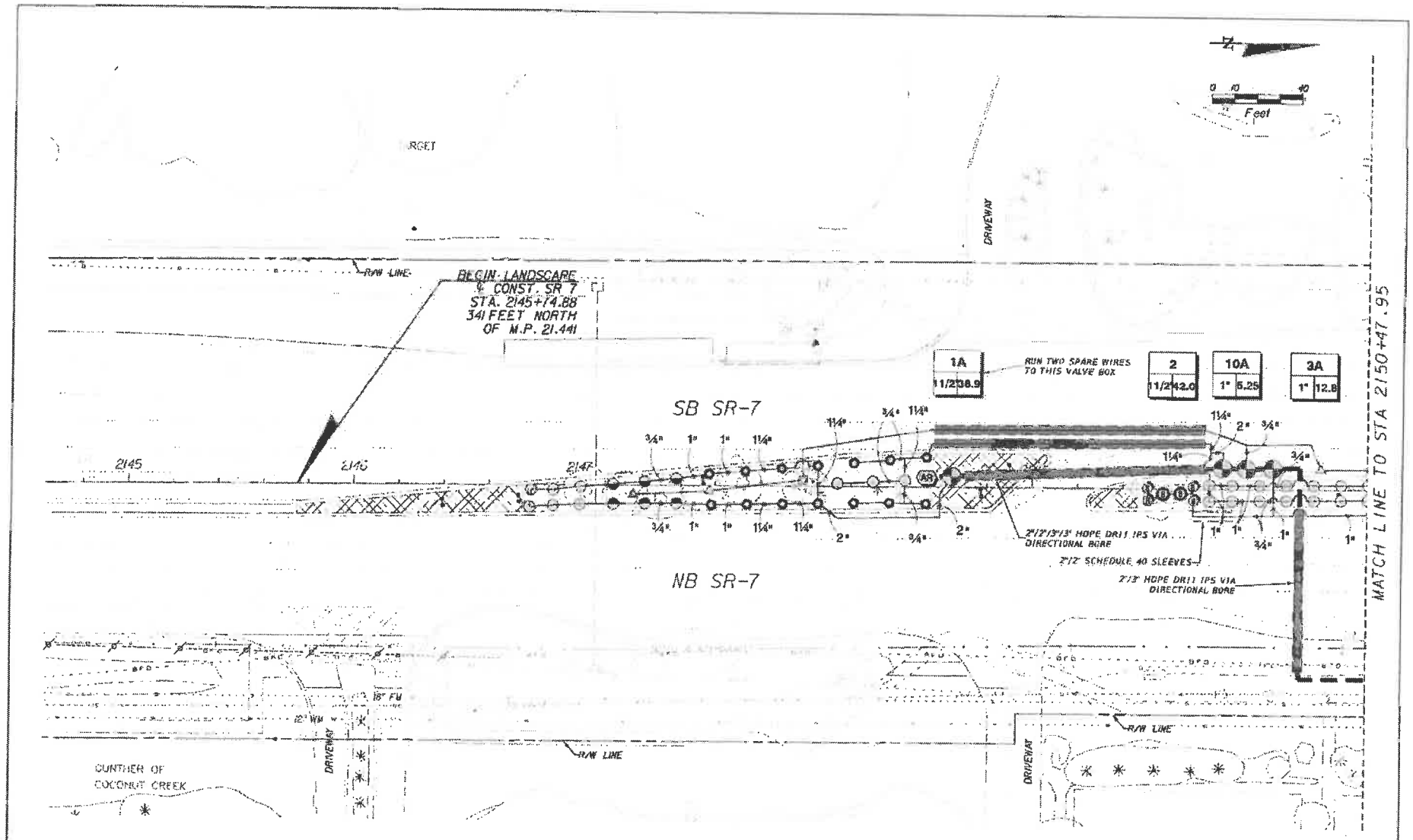

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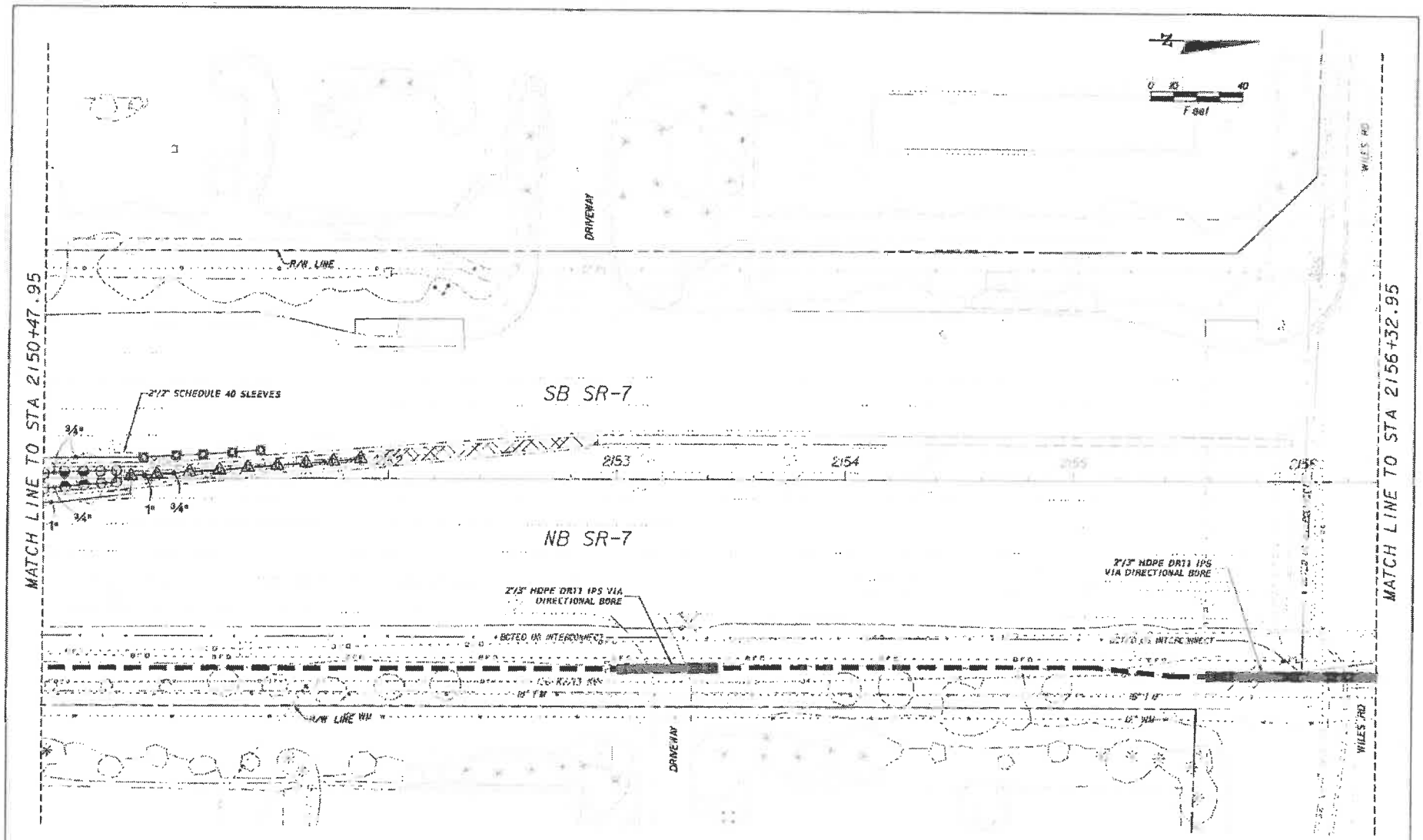
7	COCONUT CREEK	444935-1-74-01

IRRIGATION PLAN

SHEET NO.
LD-30



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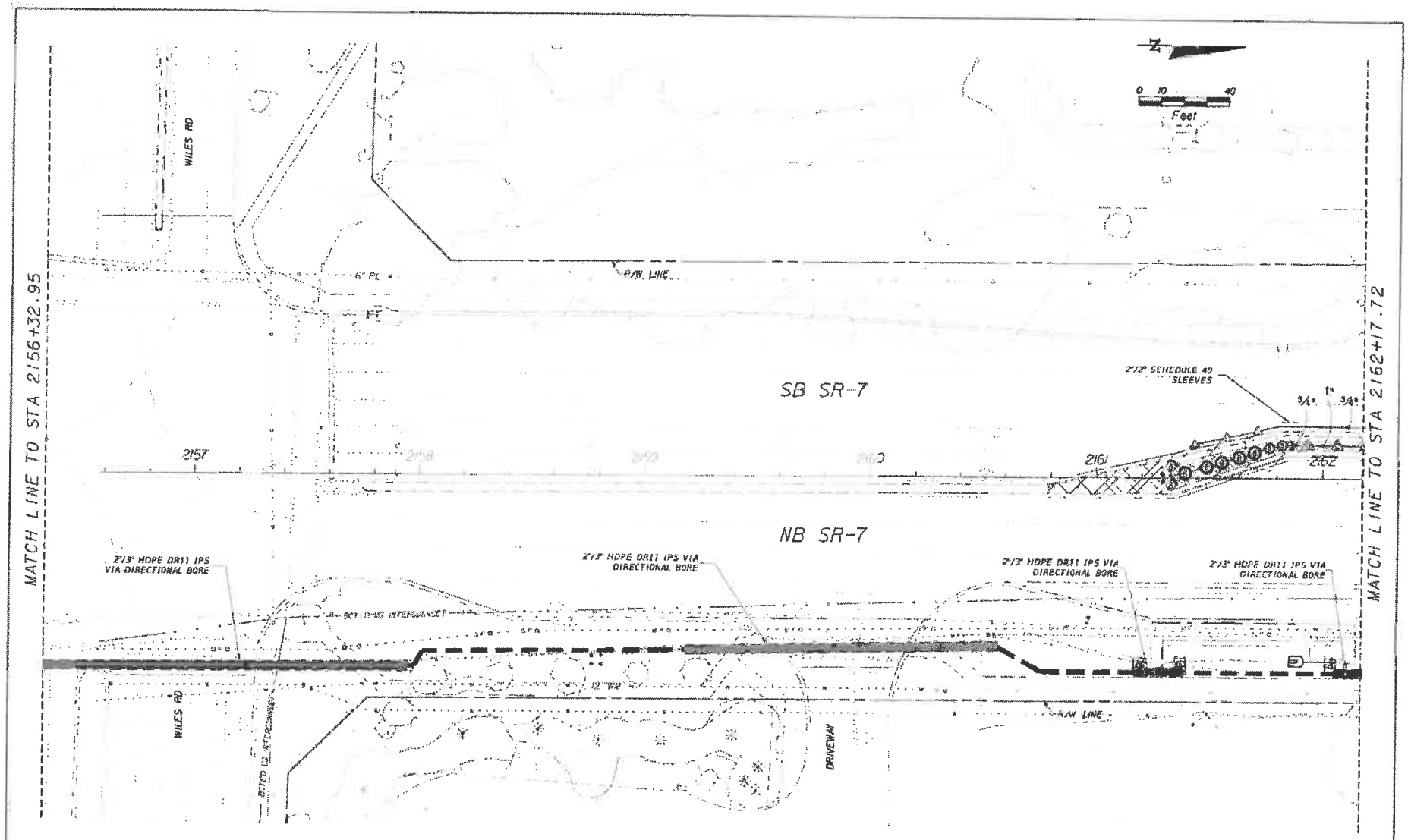
ROAD NO.	CITY OF	FINANCIAL PROJECT ID
7	COCONUT CREEK	444935-1-74-01

IRRIGATION PLAN

SHEET NO.
LD-31



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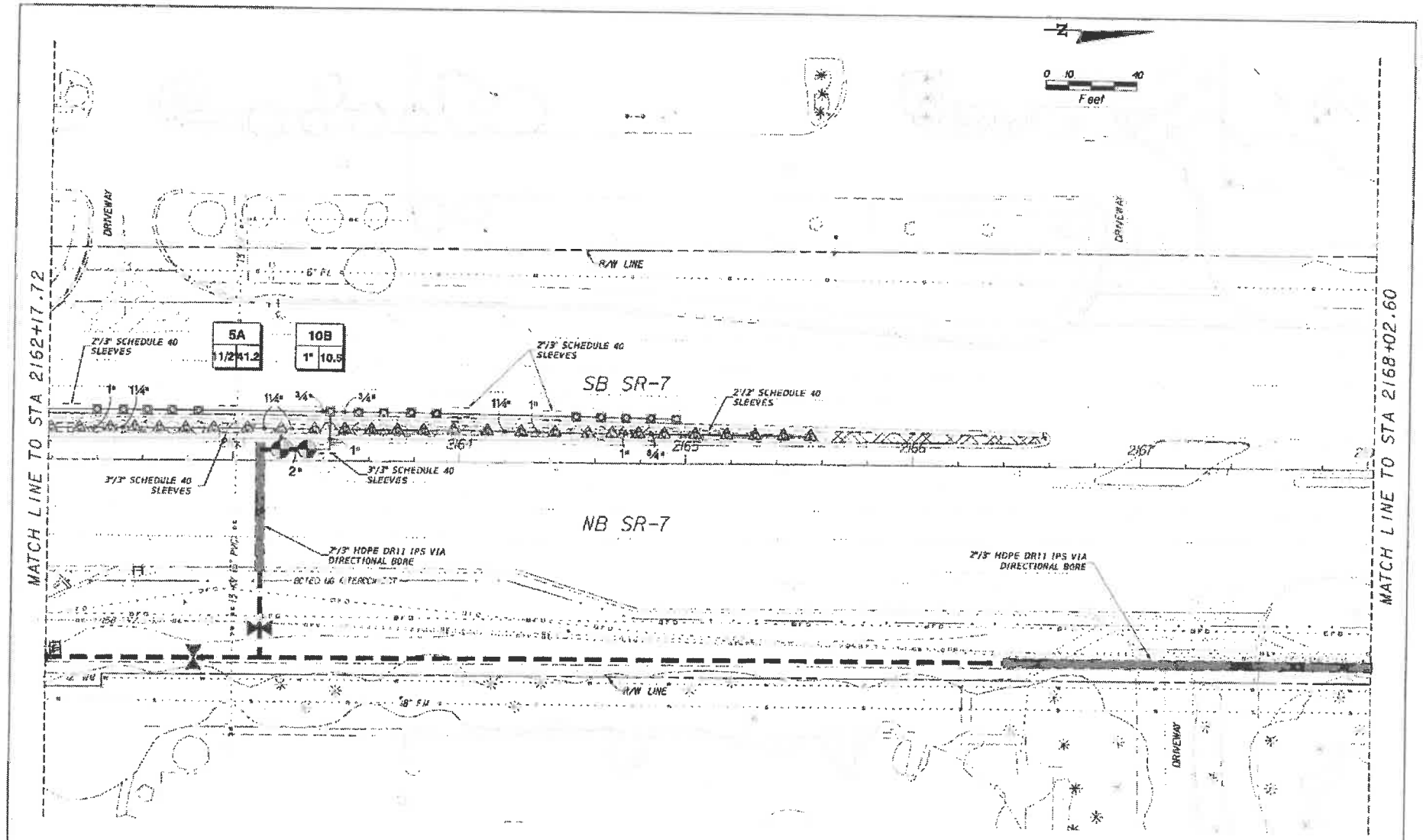
7	COCONUT CREEK	444935-1-74-01

IRRIGATION PLAN

SHEET NO. LD-32



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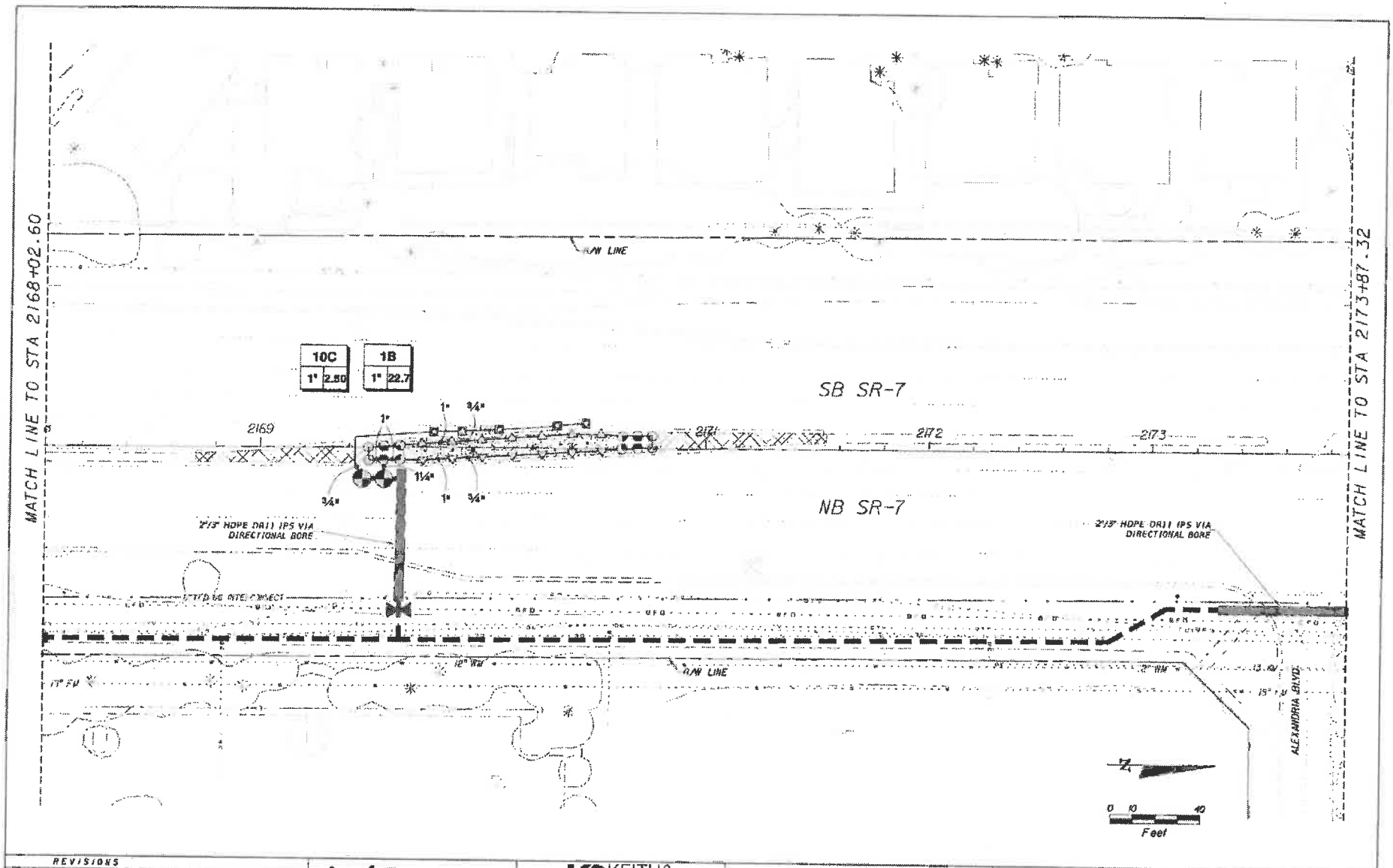
IRRIGATION PLAN

SHEET NO. LD-33



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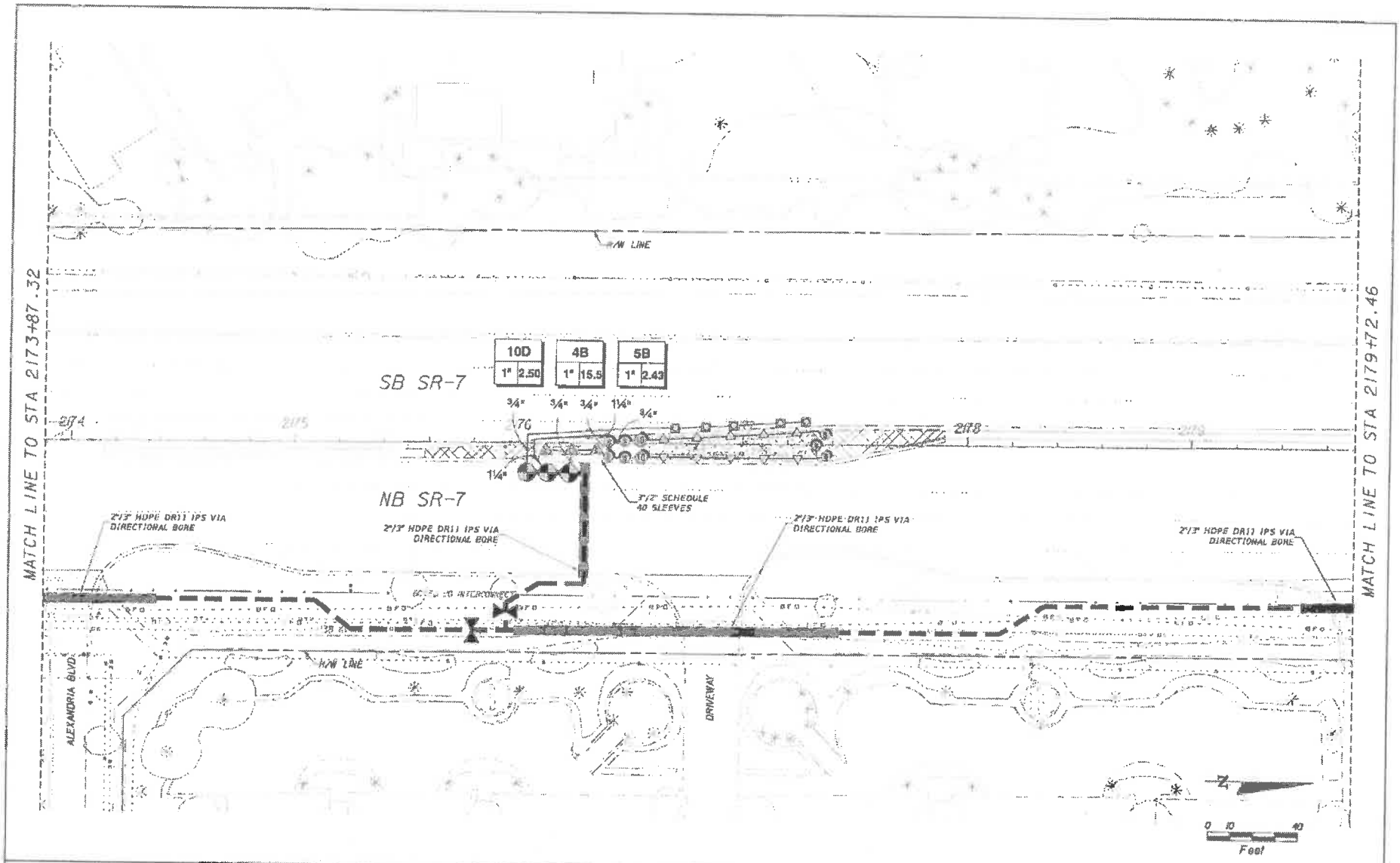
IRRIGATION PLAN

SHEET NO. LD-34



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IRRIGATION PLAN

SHEET NO. LD-35

Tentative

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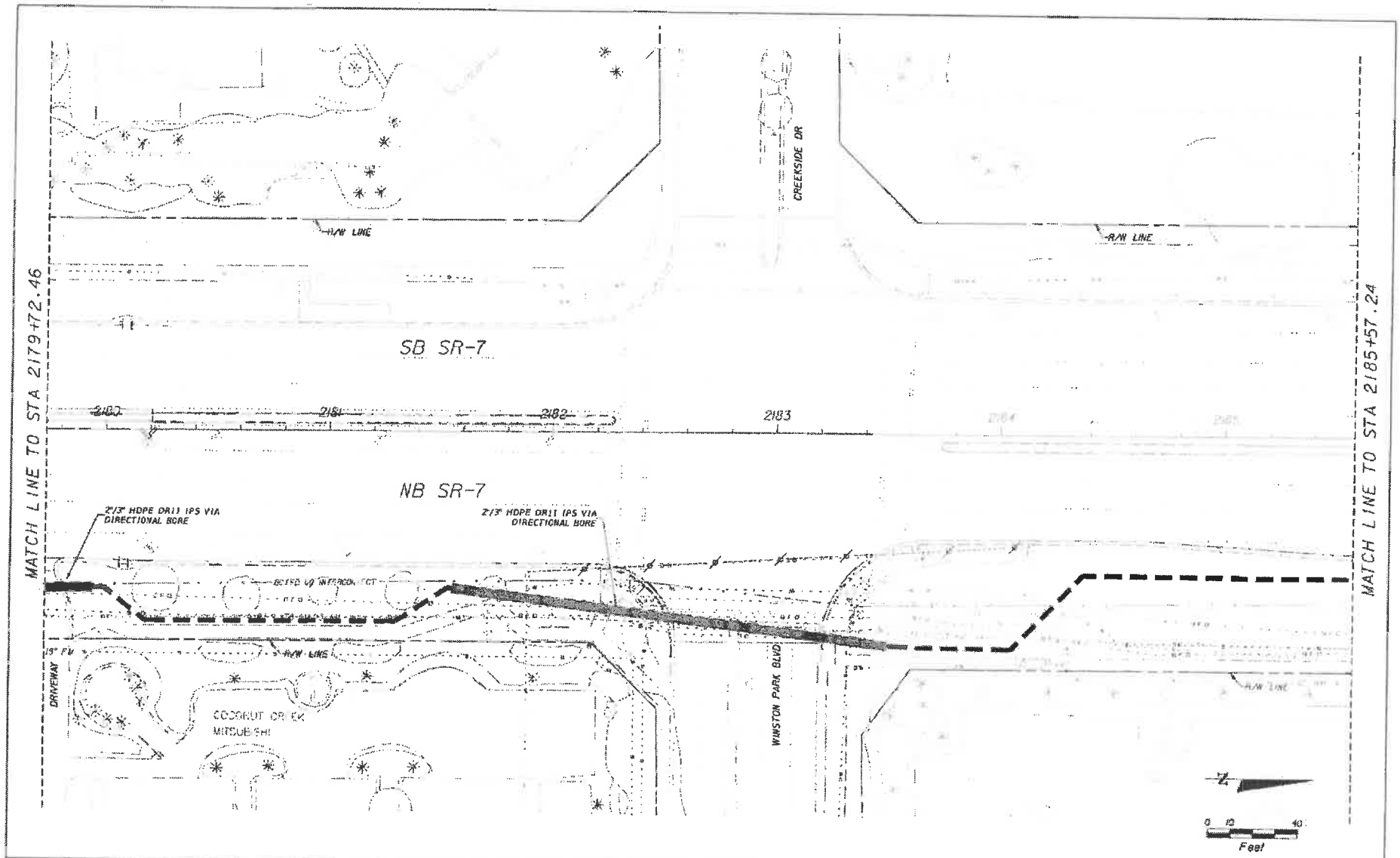

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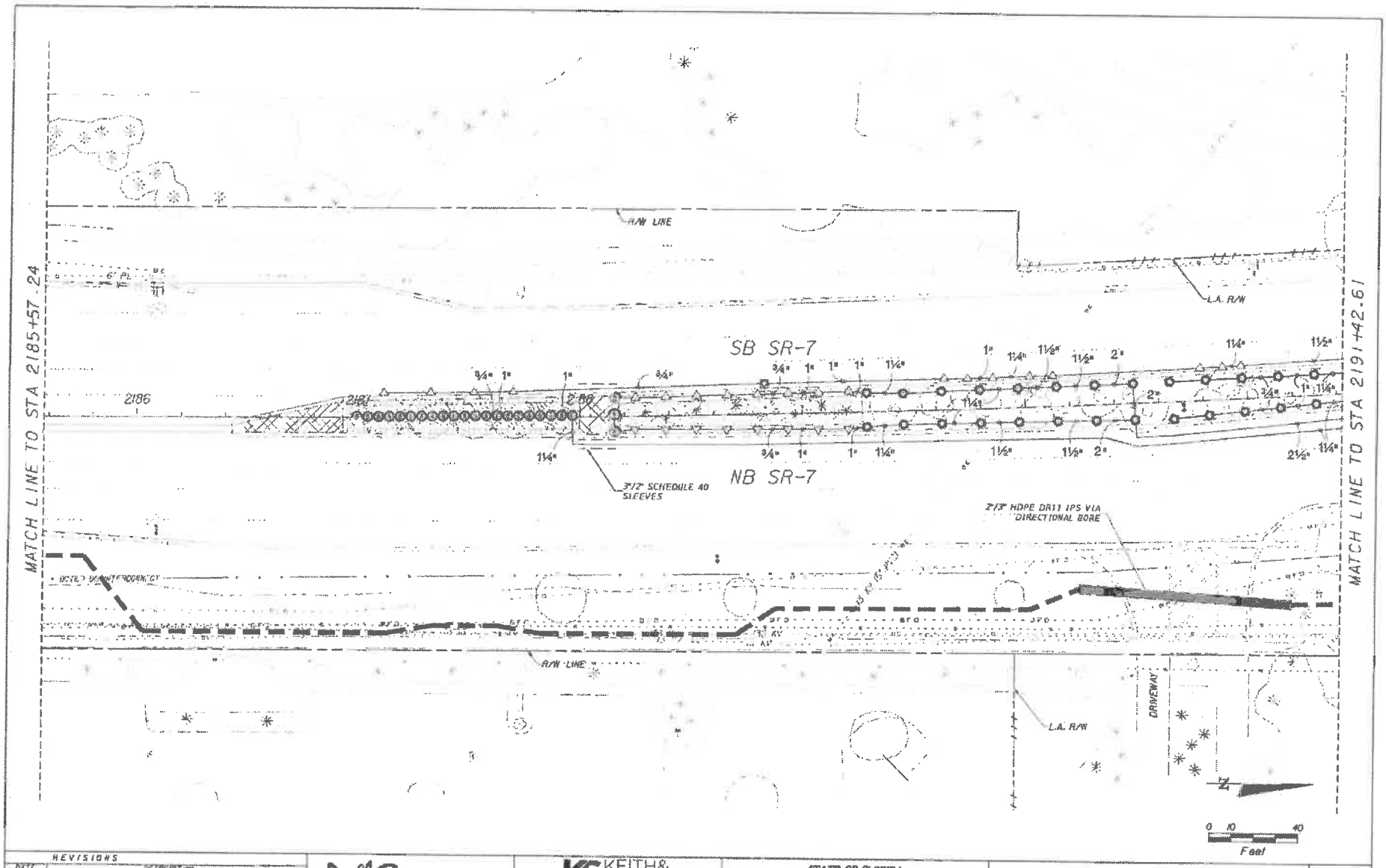
IRRIGATION PLAN

SHEET NO. LD-36



REVISIONS	
DATE	DESCRIPTION

Coconut Creek
Butterfly Capital of the World®

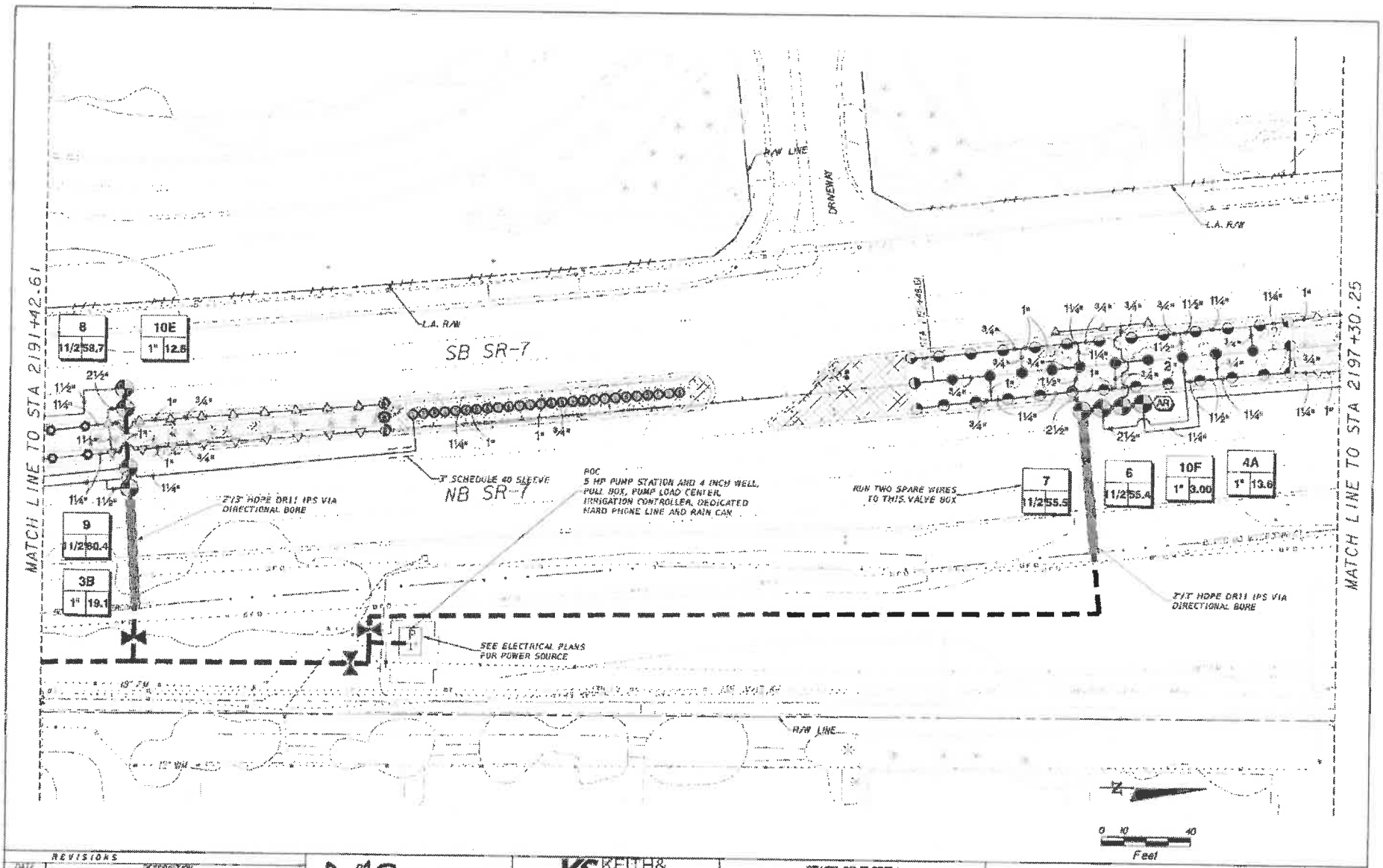
KS KEITH & SCHNARS
A DIVISION OF KCI
5300 N. Andrews Ave., Ft. Lauderdale, FL 33309-2153 (954)776-1616
LANDSCAPE ARCHITECT OF RECORD: TODD MOHLER, R.A. 0050184
CERTIFICATE OF AUTHORIZATION #1337

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-37



REVISIONS	
DATE	DESCRIPTION

Coconut Creek
Butterfly Capital of the World

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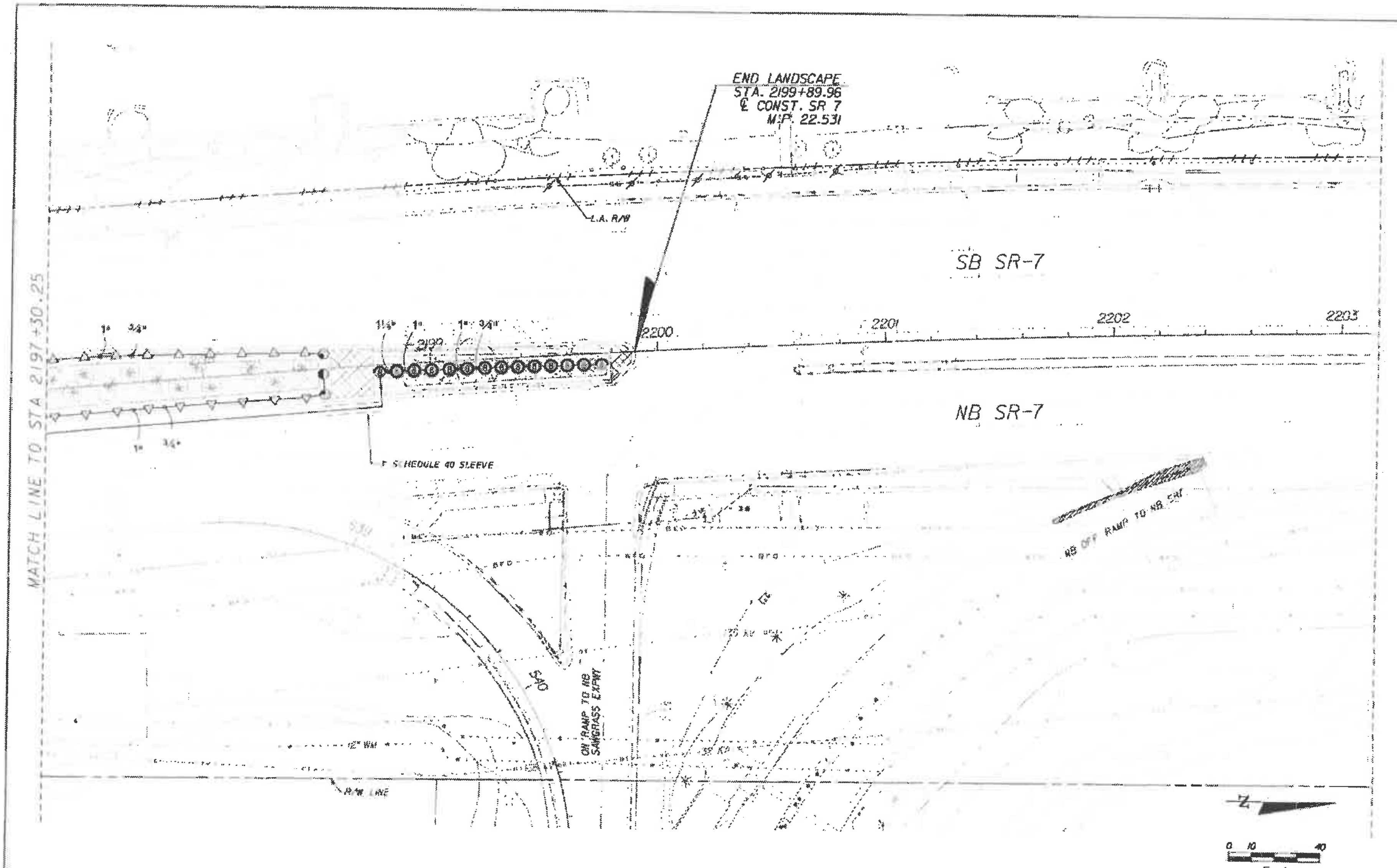
A DIVISION OF KCI

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



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	444935-1-74-01

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
5500 N. Andrews Ave., Ft. Lauderdale, FL 33309-2132 (954)776-1616
ENGINEER OF RECORD: MATTHEW D. NEDDEFF P.E. # 71911
CERTIFICATE OF AUTHORIZATION #1337

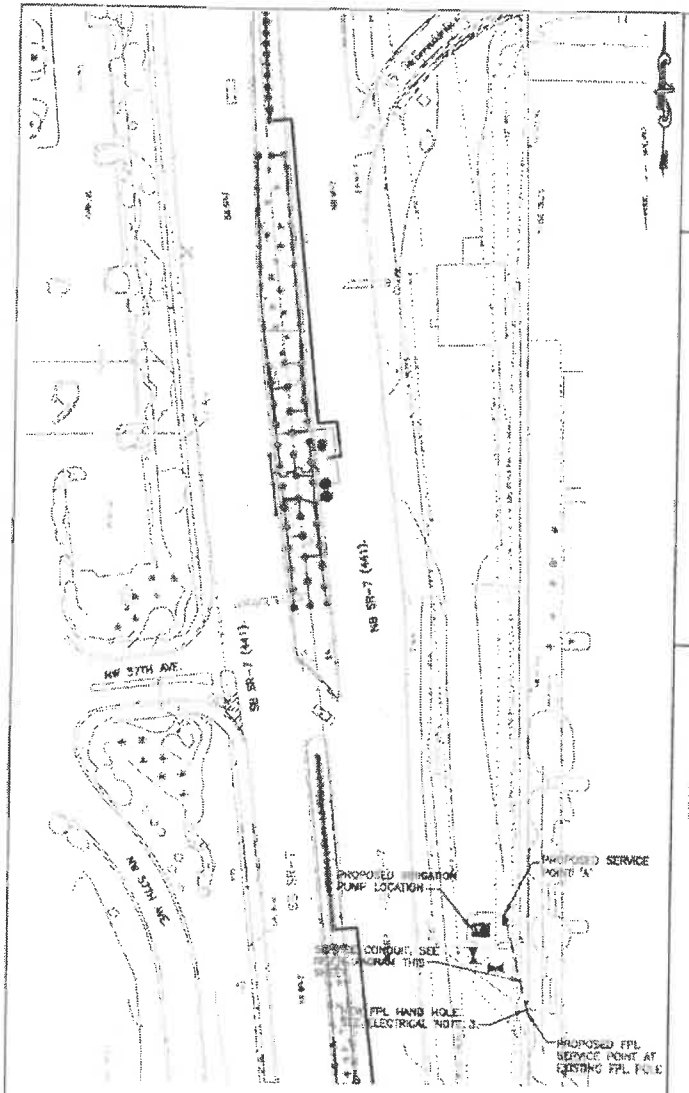
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	CITY OF	BEAUTIFICATION GRANT
7	COCONUT CREEK	2018-2019

TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. LD-40

Soul.Franco 4/9/2019 4:55:21 PM Z:\Projects\20236.04 SR 7 HBC Grant Plans\HIGHWAYS\MOT\TCP&ROOT.dgn

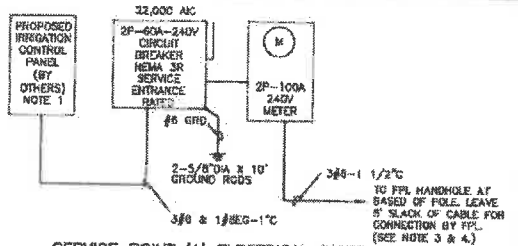


ELECTRICAL SITE PLAN

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

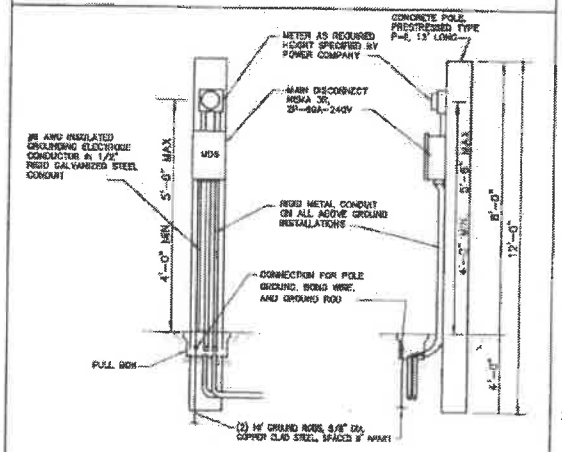
120/240V, 1 PHASE, 3 WIRE

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 Reg. #6715
2101 Palm Beach Lakes Blvd., Suite 512
West Palm Beach, FL 33409
(561) 616-6611 fax (561) 616-6612
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 #5163

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD	COUNTY	IDENTIFICATION GRANT
7	COCONUT CREEK	2018-2019

IRRIGATION PUMP ELECTRICAL PLAN

SHEET NO.
LD-41

DESIGNED | DRAWN | CHECKED | DATE | TIME | FILE

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.

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