

SECTION Nos.: 86028000, 86120000,
86100000, 86130000
S.R. Nos.: 834, 810, 7, 814
FM Nos.: 409222-1-74-01
423268-1-58-01
423270-1-58-01
WPI Nos.: 4119110
4110332
RESOLUTION No.: 96-72

**DISTRICT FOUR (4)
MAINTENANCE MEMORANDUM OF AGREEMENT
INCLUSIVE AGREEMENT**

May 2009 THIS AGREEMENT, made and entered into this 21 day of May, by and between the **STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION**, a component agency of the State of Florida, hereinafter called the DEPARTMENT and the **CITY OF COCONUT CREEK**, a municipal corporation of the State of Florida, existing under the Laws of Florida, hereinafter called the AGENCY.

W I T N E S S E T H:

WHEREAS, the **DEPARTMENT** has jurisdiction over State Roads 834, 810, 7, and 814 as part of the State Highway System as described in Exhibit A; and

WHEREAS, the AGENCY seeks to install and maintain certain landscape improvements within the right-of-way of State Road 7 as described within Exhibit B; and

WHEREAS, the AGENCY and the DEPARTMENT have entered into previous agreements for the AGENCY to maintain landscape improvements on DEPARTMENT right-of-way; and

WHEREAS, as part of the continual updating of the State of Florida Highway System, the DEPARTMENT, for the purpose of safety, protection of the investment and other reasons, has constructed and does maintain the highway facilities as State Roads 834, 810, 7, and 814 described further in Exhibit A attached hereto and incorporated by reference herein; and

WHEREAS, the AGENCY/ DEPARTMENT is of the opinion that highway facilities within the AGENCY'S limits that contain landscape improvements to medians and areas outside the travel way to the right of way line and areas within the travel way containing specialty surfacing (concrete pavers, stamped asphalt or stamped concrete), including any hardscape, but excluding standard concrete sidewalk, shall be maintained by periodic pruning, mowing, fertilizing, weeding, litter pick-up, necessary replanting, irrigation repair and any median concrete replacements associated with the specialty surfacing as needed; and

WHEREAS, it is the intent of the AGENCY and the DEPARTMENT that the AGENCY shall maintain all right of way within the medians, outside the travel way and improvements

made to the travel way that were made at the request of the AGENCY; and

WHEREAS, the AGENCY and DEPARTMENT intend for this agreement to replace and supersede the agreements described in Exhibit C except as otherwise provided in this Agreement; and

WHEREAS, the parties hereto mutually recognize the need for entering into an Agreement designating and setting forth the responsibilities of each party; and

WHEREAS, the AGENCY by Resolution No. 2009-42 dated April 30, 2009, attached hereto and by this reference made a part hereof, desires to enter into this Agreement and authorizes its officers to do so;

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

1. The recitals set forth above are true and correct and are deemed incorporated herein.
2. INSTALLATION OF FACILITIES BY AGENCY

The AGENCY has installed, or will install certain landscape improvements including: plantings, irrigation and/or hardscape on the highway facilities substantially as specified in plans and specifications hereinafter referred to as the Projects and incorporated herein as referenced as State Roads 834, 810, and 7 in Exhibits B, C and D. Hardscape shall mean, but not limited to: any non-standard landscape lighting, fountain, tree grates, decorative free standing wall, and/or sidewalk or median specialty surfacing such as but not limited to: concrete pavers, stamped asphalt or stamped concrete.

When the AGENCY is installing or will install the PROJECT, they shall comply with the following criteria.

- (a) All plant materials shall be installed and maintained in strict accordance with sound nursery practice prescribed by the International Society of Arboriculture (ISA); all plant materials installed shall be Florida #1 or better according to the most current edition of Florida Department of Agriculture, *Florida Grades and Standards for Nursery Stock*; and all trees shall meet Florida Power & Light, *Right Tree, Right Place, South Florida*.
- (b) Trees and palms within the right-of-way shall be installed and pruned to prevent encroachment to roadways, clear zones and sidewalks. Definition of these criteria is included in the most current editions of FDOT standards for design, construction, maintenance, and utility operations on the state highway system.
- (c) Tree and palm pruning shall be supervised by properly trained personnel trained in tree pruning techniques and shall meet the most current standards set forth by the International Society of Arboriculture (ISA) and the American National Standard Institute (ANSI) Part A-300 and be licensed by Broward County Environment Protection Department to perform this work.

- (d) Irrigation installation and maintenance activities shall conform to the standards set forth by the Florida Irrigation Society (FIS) latest edition of FIS, *Standards and Specifications for Turf and Landscape Irrigation Systems*.
- (e) The AGENCY shall provide the DEPARTMENT accurate as-built plans of the system so if in the future there is a need for the DEPARTMENT to perform work in the area, the system can be accommodated as much as possible.
- (f) If it becomes necessary to provide utilities (water/electricity) to the median or side areas, it shall be the AGENCY'S responsibility to obtain a permit for such work through the local maintenance office and the AGENCY shall be responsible for all associated fees for the installation and maintenance of these utilities.
- (g) All hardscape shall be installed and maintained in strict accordance with the most current edition of the *Florida Accessibility Code for Building Construction* and the *Interlocking Concrete Pavement Institute (ICPI)*.
- (h) All activities, including project installation and future maintenance operations performed on State highway right-of-way, must be in conformity with the most current edition of the *Manual on Uniform Traffic Control (MUTCD)* and *FDOT Design Standards, Index 600 Series, Traffic Control through Work Zones*.
- (i) The most current edition of *FDOT Design Standards, Index 546* must be adhered to.
- (j) Horizontal Clearance and Clear Zone as specified in the *FDOT Plans Preparation Manual, Volume 1, Chapters 2 and 4* and *FDOT Design Standards, Index 700* must be adhered to.
- (k) Landscape improvements shall not obstruct roadside signs or permitted outdoor advertising signs, (see Florida Administrative Code [F.A.C.] Rule Chapter 14-40, Part 1 and Part III.)
- (l) The AGENCY shall provide the local FDOT Operation Center, located at Broward Operations, 5548 NW 9th Avenue, Ft. Lauderdale, FL 33309 (954) 776-4300a twenty-four (24) hour telephone number and the name of a responsible person that the DEPARTMENT may contact. The AGENCY shall notify the local maintenance office forty-eight (48) hours prior to the start of the project.
- (m) If there is a need to restrict the normal flow of traffic, it shall be done on off-peak hours (9 AM to 3 PM), and the party performing such work shall give notice to the local law enforcement agency within whose jurisdiction such road is located prior to commencing work on the project. The DEPARTMENT'S Public Information Office shall also be notified.
- (n) The AGENCY shall be responsible to clear all utilities within the project limits.
- (o) The AGENCY shall follow the minimum level of maintenance guidelines as set forth in FDOT'S Rule Chapter 14-40 *Highway Beautification and Landscape*

Management, in the *FDOT Guide to Roadside Mowing and Maintenance Management System*, and Exhibit F, the Maintenance Plan for maintenance activities for landscape projects along with the Maintenance Plans attached to the superceded agreements.

Add new sentence "The Agency shall be responsible for all maintenance and repairs to FDOT sidewalks directly attributable to tree roots or other AGENCY maintained improvements."

3. MAINTENANCE OF FACILITIES

- A. The AGENCY agrees to maintain the landscape improvements, as existing and those to be installed, within the physical limits described in Exhibit A and as defined as: plantings, irrigation, and / or hardscape within the medians and areas outside the travel way to the right of way line and areas within the travelway containing specialty surfacing as existing and as described in Exhibits B and D. The non-standard improvements to the travelway shall be maintained by the AGENCY regardless if the said improvement was made by the DEPARTMENT, the AGENCY, or others by periodic pruning, mowing, fertilizing, weeding, curb and sidewalk edging, litter pickup, necessary replanting, and / or repair following the DEPARTMENT'S landscape safety and maintenance guidelines and Exhibit E, the Maintenance Plan. The AGENCY'S responsibility for maintenance shall include all landscaped / turfed and hardscape areas within the median and areas outside the travelway to the right-of-way and areas within the travelway containing specialty surfacing. It shall be the responsibility of the AGENCY to restore an unacceptable ride condition of the roadway caused by the differential characteristics of non-standard surfacing and the associated header curb and concrete areas on the DEPARTMENT right-of-way within the limits of this Agreement.
- B. Such maintenance to be provided by the AGENCY is specifically set out as follows: to maintain, which means the proper watering and fertilization of all plants and keeping them as free as practicable from disease and harmful insects; to properly mulch the planting beds; to keep the premises free of weeds; to mow the grass to the proper height; to properly prune all plants which at a minimum includes: (1) removing dead or diseased parts of plants, (2) pruning such parts thereof to provide clear visibility to signage or for those using the roadway and or sidewalk; (3) preventing any other potential roadway hazards. Plants shall be those items which would be scientifically classified as plants and include but are not limited to trees, shrubs, groundcover and sod. To maintain also means removing or replacing dead or diseased plants in their entirety, or removing or replacing those that fall below original project standards. Palms must be kept fruit free year round. To maintain also means keeping the header curbs that contain the surfacing treatment in optimum condition. To maintain also means keeping the hardscape areas free from weeds and repairing said hardscape as is necessary to prevent a safety hazard. To maintain also means keeping litter removed from the median and areas outside the travel way to the right of way line. All plants removed for whatever reason shall be replaced by plants of the same species type, size, and grade as specified in the original plans and specifications. Any changes to the original plans shall be submitted by permit application to the DEPARTMENT for review and approval.
- C. If it becomes necessary to provide utilities (water/electricity) to the medians or areas outside the travelway for these improvements, all costs associated with the utilities associated with landscape accent lighting and/or irrigation including, but not limited to the impact and connection fees, and the on-going cost of utility usage for water and electrical, are the maintaining AGENCY'S responsibility.

- (1) The AGENCY shall become responsible for the above named utility costs upon final acceptance of the construction project by the DEPARTMENT and thereafter. The construction project is accepted prior to the start of the Plant Establishment and Contractor's Warranty Period.

AND

- (2) The AGENCY shall be responsible for all the improvements immediately after final acceptance of the construction project by the DEPARTMENT except for plants. The AGENCY shall be responsible for the maintenance of all improvements after the completion of the Plant Establishment and Contractor's Warranty Period.

D. The above named functions to be performed by the AGENCY may be subject to periodic inspections by the DEPARTMENT at the discretion of the DEPARTMENT. Such inspection findings will be shared with the AGENCY and shall be the basis of all decisions regarding, repayment, reworking or agreement termination. The AGENCY shall not change or deviate from said plans without written approval of the DEPARTMENT.

4. SUPERSEDED PRECEDING AGREEMENTS

This Agreement shall replace and supersede any and all preceding agreements as listed in Exhibit C except as specifically excepted out. The landscape improvement plans attached to the referenced agreements shall by reference become a part of this agreement as if they were attached hereto. The AGENCY shall have the same duty to maintain those landscape improvements under this Agreement as the Agency did under the previous agreements, and as more specifically detailed in this Agreement.

This writing embodies the entire Agreement and understanding between the parties hereto and there are no other Agreements and understanding, oral or written, with reference to the subject matter hereof that are not merged herein and superseded hereby except as specifically reference in Exhibit C.

5. NOTICE OF MAINTENANCE DEFICIENCIES

A. If at any time after the AGENCY has undertaken the landscape improvement installation and/or maintenance responsibility mentioned above, it shall come to the attention of the DEPARTMENT'S District Secretary that the limits, or a part thereof, are not properly maintained pursuant to the terms of this Agreement, said District Secretary, may at his/her option, issue a written notice that a deficiency or deficiencies exist(s), by sending a certified letter to the AGENCY, to placing said AGENCY on notice thereof. Thereafter, the AGENCY shall have a period of thirty (30) calendar days within which to correct the cited deficiencies. If said deficiencies are not corrected within this time period, the DEPARTMENT may, at its option, proceed as follows:

- (1) Complete the installation, or part thereof, with DEPARTMENT or Contractor's personnel and deduct the cost of such work from the final payment for said work or part thereof, or

- (2) Maintain the landscape improvements or any part thereof, with the DEPARTMENT or Contractor's personnel and invoice the AGENCY for expenses incurred, or
- (3) At the discretion of the DEPARTMENT terminate the Agreement in accordance with Paragraph 12, and remove, by the DEPARTMENT or private Contractor's personnel, all of the landscape improvements installed under this Agreement or any preceding Agreements except as to trees and palms and charge the AGENCY the reasonable cost of such removal.

B. The AGENCY agrees to reimburse the DEPARTMENT all monies expended by the DEPARTMENT for the projects listed in Exhibits B and C in the amounts listed in those agreements should the landscape improvement areas fail to be maintained in accordance with the terms and conditions of this Agreement in the amounts listed in those agreements.

6. FUTURE DEPARTMENT IMPROVEMENTS

In the event the DEPARTMENT decides to construct additional landscape improvements or modify these improvements within the limits of the rights of way herein previously identified, the DEPARTMENT and the AGENCY shall agree in writing and require signature from the responsible AGENCY (*Chairperson/Mayor/City Manager/City Engineer/Director of Public Works/Director of Parks and Recreation approval signature*) to the new landscape improvements and maintenance plan thereof. If the AGENCY and the DEPARTMENT are unable to come to an agreement, the DEPARTMENT, in its sole discretion, may install sod and the agency shall be required, pursuant to this Agreement, to continue maintaining said landscape improvements. It is understood between the parties hereto that the landscape improvements covered by this Agreement may be removed, relocated, or adjusted at any time in the future, as determined to be necessary by the DEPARTMENT in order that the adjacent state road be widened, altered, or otherwise changed to meet with future criteria or planning of the DEPARTMENT. The AGENCY shall be given sixty (60) calendar day's notice to remove said landscape/hardscape after which time the DEPARTMENT may remove same. All permits (including tree permits), fees, and any mitigation associated with the removal, relocation or adjustments of these improvements are the maintaining AGENCY'S responsibility.

7. FUTURE AGENCY IMPROVEMENTS

The AGENCY may construct additional landscape improvements within the limits of the rights of ways identified as a result of this document, subject to the following conditions:

- (a) Plans for any new landscape improvements shall be subject to approval by the DEPARTMENT. The AGENCY shall not change or deviate from said plans without written approval by the DEPARTMENT.
- (b) The AGENCY shall procure a permit from the DEPARTMENT.
- (c) All landscape improvements shall be developed and implemented in accordance with appropriate state safety and roadway design standards.

- (d) The AGENCY agrees to comply with the requirements of this Agreement with regard to any additional landscape improvements installed at no cost to the DEPARTMENT.

8. ADJACENT PROPERTY OWNER IMPROVEMENTS

The DEPARTMENT may allow an adjacent property owner to construct additional landscape or hardscape 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.

9. PROJECT COST

The DEPARTMENT may enter into a separate contract with the AGENCY for the installation of the Project (Phase I) for an amount not to exceed \$200,000.00 and for the installation of the Project (Phase II) for an amount not to exceed \$250,000.00 as defined in Exhibit F. This amount may be reduced or eliminated at the sole discretion of the DEPARTMENT or due to budgetary constraints of the DEPARTMENT.

The AGENCY shall be invited to assist the DEPARTMENT in final inspection upon completion of the Plant Establishment and Contractor's Warranty Period.

10. AGENCY REIMBURSEMENT

The DEPARTMENT and the AGENCY intend to enter into a separate agreement(s) as further described in Exhibit E attached hereto and made a part hereof. Reimbursement is limited as provided in those agreements. The DEPARTMENT shall be invited to assist the AGENCY in final inspections before acceptance of the job by the AGENCY

11. AGREEMENT TERMINATION

This Agreement may be terminated under any one (1) of the following conditions:

- (a) By the DEPARTMENT, if the AGENCY fails to perform its duties under this Agreement, following ten (10) days written notice.

- (b) By the DEPARTMENT, for refusal by the AGENCY to allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119, Florida Statutes, and made or received by the AGENCY in conjunction with this Agreement.

12. AGREEMENT TERM

- A. The term of this Agreement commences upon execution by all parties. The term of this Agreement shall last as long as the landscape improvements exist.
- B. If the DEPARTMENT cancels one or all the project(s) described in Exhibit B, this Agreement shall still be valid.

13. LIABILITY AND INSURANCE REQUIREMENTS

- A. With respect to any of the AGENCY'S agents, consultants, sub-consultants, contractors, and/or sub-contractors, such party in any contract for this project shall agree to indemnify, defend, save and hold harmless the DEPARTMENT from all claims, demands, liabilities, and suits of any nature arising out of, because of or due to any intentional and/or negligent act or occurrence, omission or commission of such agents, consultants, subconsultants, contractors and/or subcontractors. The AGENCY shall provide to the DEPARTMENT written evidence of the foregoing upon the request of the DEPARTMENT. It is specifically understood and agreed that this indemnification clause does not cover or indemnify the DEPARTMENT for its own negligence.
- B. In the event that AGENCY contracts with a third party to provide the services set forth herein, any contract with such third party shall include the following provisions:
 - (a) AGENCY'S contractor shall at all times during the term of this Agreement keep and maintain in full force and effect, at contractor's sole cost and expense, Comprehensive General Liability with minimum limits of \$1,000,000.00 per occurrence combined single limit for Bodily Injury Liability and Property Damage Liability and provide Worker's Compensation Insurance in accordance with the laws of the State of Florida and in amounts sufficient to secure the benefits of the Florida Worker's Compensation Law for all employees. Coverage must be afforded on a form no more restrictive than the latest edition of the Comprehensive General Liability and Worker's Compensation policy without restrictive endorsements, as filed by the Insurance Services Office and shall name DEPARTMENT as an additional insured.
 - (b) AGENCY'S contractor shall furnish AGENCY with Certificates of Insurance of Endorsements evidencing the insurance coverages specified herein prior to the beginning performance of work under this Agreement.
 - (c) Coverage is not to cease and is to remain in full force and effect (subject to cancellation notice) until all performance required of AGENCY'S contractor is completed. All policies must be endorsed to provide the DEPARTMENT with at least thirty (30) days notice of cancellation and or/or restriction. If any of the

insurance coverages will expire prior to the completion of work, copies of renewal policies shall be furnished at least (30) days prior to the date of expiration.

14. The DEPARTMENT, during any fiscal year, shall not expend money, incur any liability, nor enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such contract. The DEPARTMENT shall require a statement from the Comptroller of the DEPARTMENT that funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding one year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years; and this paragraph shall be incorporated verbatim in all contracts of the DEPARTMENT which are for an amount in excess of TWENTY-FIVE THOUSAND DOLLARS (\$25,000.00) and which have a term for a period of more than one year.
15. The DEPARTMENT'S District Secretary shall decide all questions, difficulties, and disputes of any nature whatsoever that may arise under or by reason of this Agreement, the prosecution or fulfillment of the service hereunder and the character, quality, amount and value thereof; and his decision upon all claims, questions, and disputes shall be final and conclusive upon the parties hereto.
16. This Agreement may not be assigned or transferred by the AGENCY, in whole or in part, without the prior written consent of the DEPARTMENT.
17. This Agreement shall be governed by and construed in accordance with the laws of the State of Florida. In the event of a conflict between any portion of the contract and Florida law, the laws of Florida shall prevail. The Agency agrees to waive forum and venue and that the Department shall determine the forum and venue in which any dispute under this agreement is decided

18. EXCEPTION TO SUPERSEDED PRECEDING AGREEMENTS

This Agreement constitutes the complete and final expression of parties with respect to the subject matter hereof and supersedes all prior agreements, understanding, or negotiations with respect thereto, with the exception of the landscape improvements plans incorporated by reference in Exhibit B, Exhibit C and the Agreement "Excepted Out" in Exhibit C.

19. NOTICES

Any and all notices given or required under this Agreement shall be in writing and either personally delivered with receipt acknowledgement or sent by certified mail, return receipt requested. All notices shall be sent to the following addresses:

If to the DEPARTMENT:

State of Florida Department of Transportation
Planning & Environmental Management
3400 West Commercial Blvd.
Ft. Lauderdale, FL 33309-3421
Attention: Elisabeth A. Hassett, R.L.A.
FDOT District IV Landscape Architect

If to the AGENCY:

City of Coconut Creek
4800 West Copans Road
Coconut Creek, Florida 33063
Attention: Ms. Pamela Stanton
City Landscape Architect

21. LIST OF EXHIBITS

- Exhibit A: City of Coconut Creek Limits & Agreement Status Graphic
- Exhibit B: Project(s) Pending Agreements
- Exhibit C: Preceding Project Agreements and Lease Agreement(s) Descriptions
- Exhibit D: Pending Agency Project(s) Landscape Improvement Plans
- Exhibit E: Maintenance Plan (s)
- Exhibit F: Pending Agency Project(s) Cost Estimates

IN WITNESS WHEREOF, the parties hereto have executed this Agreement effective the day and year first above written.

AGENCY CITY OF COCONUT CREEK

By: *David J. Rivera*

City Manager *DAVID J. RIVERA*

Attest: *Barbara Thrice*

(SEAL)
Clerk

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

By: *Gregory O'Reilly*

Transportation Development Director

Attest: *Nancy Cousins*

Executive Secretary

Approval as to Form

Date

Nancy Cousins 4/28/09
Attorney
NANCY A. COUSINS

Approval as to Form

Debra Kadane 5/27/2009
District General Counsel



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EXHIBIT A

CITY OF COCONUT CREEK CITY LIMITS

All state right of way within the limits of the City of Coconut:

SR 834 (Sample Road)

M.P. 3.008 (SR 91) to M.P. 5.030 (West of SR 7)

SR 810 (Hillsboro Boulevard)

M.P. 0.000 (East of SR 7) to M.P. 1.997 (East of SR 91)

SR 7 (US 441)

M.P. 20.861 (Winston Park/Creekside Drive) to M.P. 24.591 (Broward/Palm Beach County Line)

SR 814 (Atlantic Boulevard)

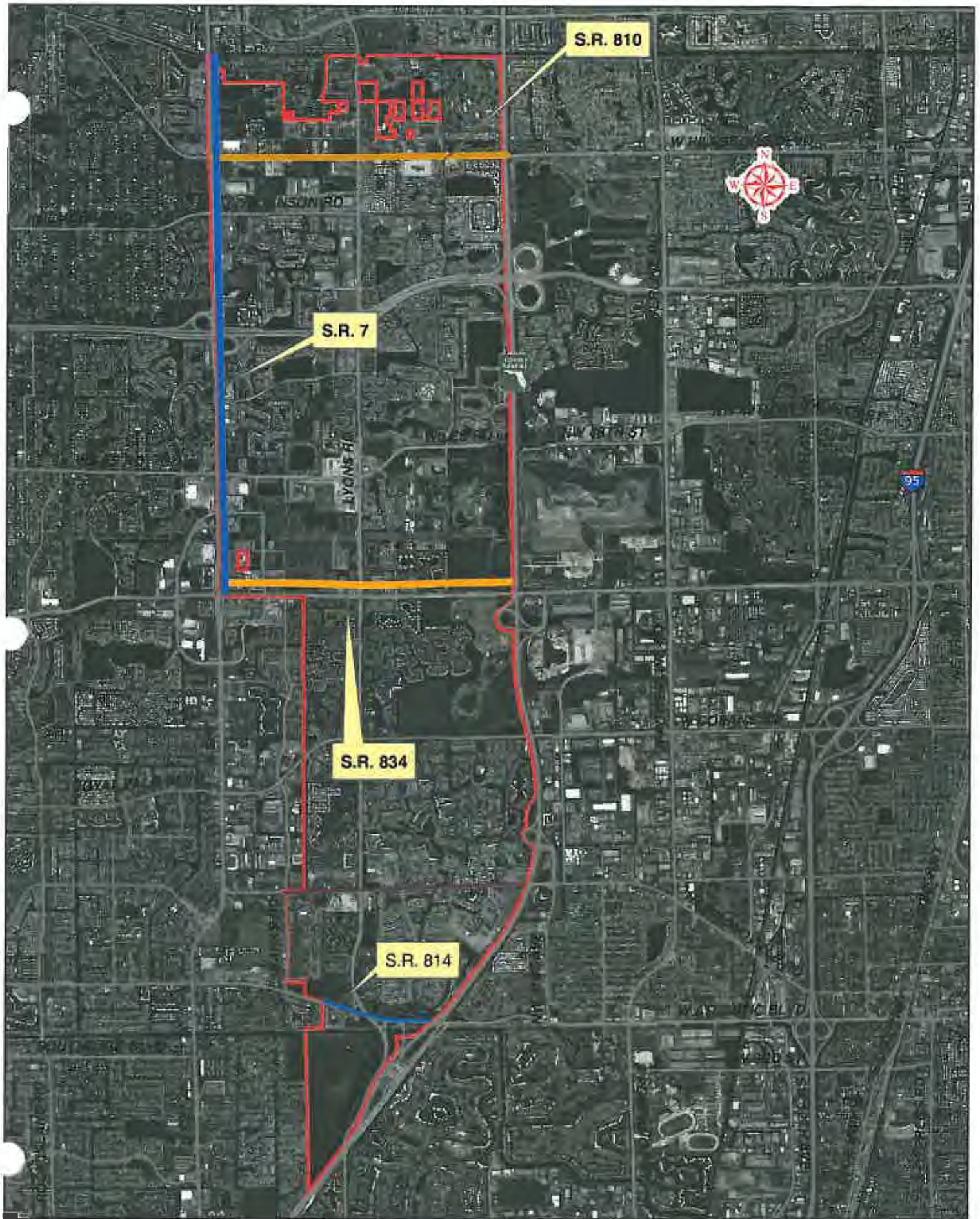
M.P. 0.753 (East Hemingway Court) to M.P. 1.715 (SR 91)

EXHIBIT A

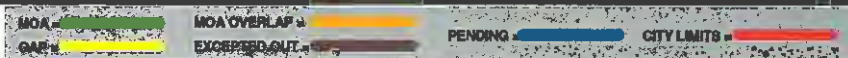
CITY OF COCONUT AGREEMENT STATUS GRAPHIC FOR STATE ROADS:

Areas currently maintained by the Agency pursuant to this Maintenance Memorandum of Agreement (MOA).

See Attached Graphic.



CITY OF COCONUT CREEK



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EXHIBIT B

PROJECT(S) PENDING AGREEMENT(S)

All state right of way on SR 7 (US 441) within the limits of the City of Coconut Creek

AGENCY INSTALLED PROJECT:

Phase I - South Median SR 7 (US 441) from the first median north of SR 869 (MP 22.700) through the fourth median north of SR 869 (MP 24.445).

Phase II - North Median SR 7 (US 441) from the fifth median north of SR 869 (MP 24.445) to the Broward/Palm Beach County Line (MP 24.591).

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EXHIBIT C

PRECEDING PROJECT AGREEMENT DESCRIPTIONS AND LEASE AGREEMENT DESCRIPTIONS

The following agreements have been executed for projects that have been installed, in accordance with the plans and specifications attached hereto and incorporated herein but not exclusive to the following agreement descriptions:

AGREEMENTS SUPERSEDED BY THIS AGREEMENT

4/12/01 - State Road 834 (Sample Road) from west of the **SR 7 (M.P. 5.030) to Turnpike (M.P. 3.008)** maintenance shall include all landscaped/turfed areas and areas covered with hardscape within the median and areas outside the travel way to the ROW line. Resolution No. 2001-40 (4/12/01), FIN No. 4092221, Section No. 86028.

8/8/91 - State Road 834 (Sample Road) from **SR 7 (M.P. 5.030) to Turnpike (M.P. 3.008)** maintenance shall include all landscaped and /or turfed areas on FDOT ROW within project limits. Resolution No. 91-54 (6/27/91).

1/11/95 - State Road 810 (Hillsboro Blvd.) from just east of **SR 7 (M.P. 0.010)** to just east of the **Turnpike (M.P. 2.029)** maintenance shall include all landscape/turfed areas and areas covered with interlocking pavers (hardscape) on FDOT ROW and within project limits. Resolution No. 94-75 (9/8/74).

10/24/96 East side of State Road 7 (US 441) adjacent to **Winston Park/Creekside Drive [(M.P. 22.234) east to M.P. 22.390]** maintenance shall include all landscape/turfed areas and areas covered with interlocking pavers (hardscape) on FDOT ROW and within project limits. Resolution No. 96-72 (10/24/96), Section No. 86100.

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EXHIBIT D

PENDING AGENCY PROJECT(S) LANDSCAPE IMPROVEMENT PLANS

Please see attached plans by:

Phase I - State Road 7 (US 441) South Medians

Brian Shore, RLA/Miller Legg

Dated: June 4, 2008

Phase II - State Road 7 (US 441) North Medians

Brian Shore, RLA/Miller Legg

Dated: February 25, 2009

STATE ROAD NO. 7/US 441
NORTH OF SAWGRASS EXPRESSWAY (M.P. 22.700)
TO BROWARD/PALM BEACH COUNTY LINE (M.P. 24.591)

INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2 thru LD-3	TABULATION OF QUANTITIES/PLANT SCHEDULE
LD-4	LANDSCAPE NOTES
LD-5	EXISTING CONDITION CHART
LD-6 thru LD-8	EXISTING CONDITION PLAN
LD-9 thru LD-10	EXISTING CONDITION CHART
LD-11 thru LD-13	HARDSCAPE NOTES AND DETAILS
LD-14 thru LD-16	LANDSCAPE/HARDSCAPE PLAN
LD-17 thru LD-18	IRRIGATION NOTES
LD-19 thru LD-21	IRRIGATION NOTES & DETAILS
LD-22 thru LD-24	IRRIGATION DETAILS
LD-25 thru LD-27	IRRIGATION NOTES
LD-28 thru LD-30	TRAFFIC CONTROL NOTES
LD-31 thru LD-33	TRAFFIC CONTROL DETAILS
LD-34 thru LD-36	TRAFFIC CONTROL DETAILS



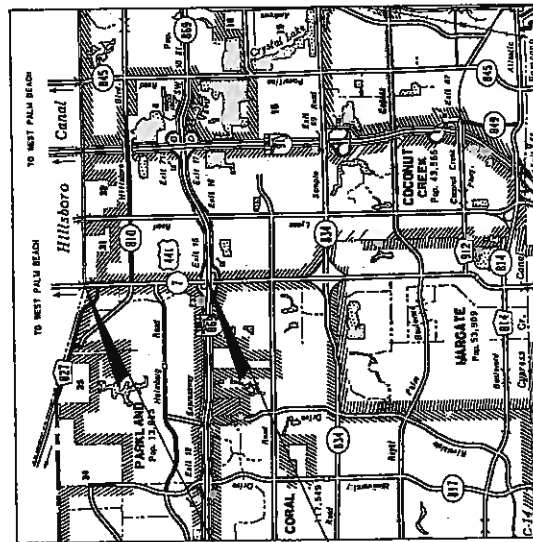
City of Coconut Creek

4800 West Copans Road
954-973-6770 • Fax: 954-973-6794
www.greenbay.net

Mayor: Lou Sabone
Vice Mayor: Becky Tooley
Commissioner: Marilyn Gerber
Commissioner: Leonard Freund
Commissioner: Ron Dearing, Jr.
City Manager: John P. Kelly

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2008, AND STANDARD
SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
DATED 2007, SECTION 580 LANDSCAPE INSTALLATION,
AS AMENDED BY CONTRACT DOCUMENTS

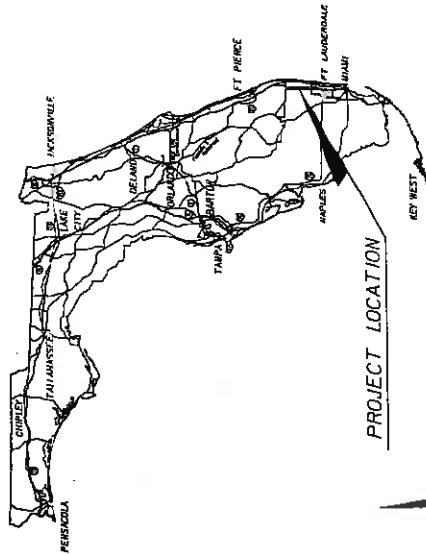
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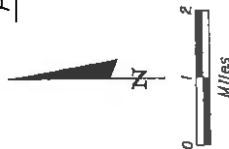
U.P. 24.591

M.P. 22.700

PROJECT LENGTH: 1.891 MILES



PROJECT LOCATION



PLANS PREPARED BY:



MILLER LEGG

1800 North Douglas Road • Suite 200 • Ft. Meade Pines, Florida • 33024
954-436-7000 • Fax: 954-436-8664 • www.millerdeg.com
Certification of Authorization: 1C0000037

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

MEM 051033Z MEM550

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PROJECT GENERAL NOTES:

1. The Contractor shall visit the site prior to planning 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 trees survey sketch information shown is the best available information available at the time of preparation of sketch. The Contractor shall verify the City of any discrepancies in this information provided. Bases map is a sketch of corridor and data is not geographically located within any survey datum. 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 add contractor in construction of hard-cape features. Contractor to use back of earth 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 said 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.

5. The Contractor shall submit a inventory list of the existing signs including photos to the City at the Pre-Construction Conference. Any existing signs damaged by the contractor during construction, shall be replaced by the Contractor at no additional cost to the City or FDOT.

6. Contractor is to notify the City/FDOT, who shall notify the State Permits Office at 850-400-4951 at least 7 calendar days in advance of a MOT Set-up that will impact Overweight/Overheight Vehicles.

7. Contractor shall remove and dispose of existing acid and surplus materials off-site or as directed by the City.

9. CLEVERING AND GRUBBING:

a. TREE REMOVAL: Includes cut, removal & stump grinding to a 1'0" minimum depth.

b. SHRUBS & GROUNDCOVERS: Includes removal of existing shrubs and groundcovers within areas where proposed plant material is a certified 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 50 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 Plan (SWPPP) to City for review and approval. 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 salt 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 inlet clean of planting soil, debris, etc., during this construction at no additional cost to the City. Contractor shall submit plan for protection of inlets and for 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 dig, the Contractor shall call Sunshine State One Call of Florida, telephone number 1-800-432-4770, 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 poles.

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 2007

2. FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System 2008 (English Units)

3. Federal Highway Administration ASHOTO A Policy On Geometric Design of Highways and Streets, 2001; Chapter 9, INTERSECTION SIGHT DISTANCE, CASE B and F, and Department practices for standardized median openings (left turns from major roadways).

LANDSCAPE GENERAL NOTES:

1. Landscaping including but not limited to, pruning and installation work shall be performed by a Contractor Certified by the Florida Nurserymen, Growers and Landscape Association (FNLGA) as a Certified Landscape Contractor.

2. PLANTING SOIL: Contractor shall provide a consistent mix of 40% General Topsoil / 50% Sand / 10% Fertilizer. The planting soil shall be tested at the time of planting and the soil shall be adjusted to a pH of 6.0-6.5. A "non-soluble wetting agent" shall be added to all trees and plants at time of planting.

3. SOIL: Provided specified species of soil as shown on plans. All existing turf areas within the medians shall be removed and replaced as indicated on plans. At existing areas within swale areas shall remain unless otherwise specified. Contractor shall only remove existing turf and miscellaneous scrub material from proposed planting bed areas. The Contractor shall be responsible to re-plant any damaged areas and restore the existing grade due to installation activities impacted during landscape removal and/or new installation activities with the same species of soil. Cost of replacement material shall be included within Mobilization and at the Contractor's expense.

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 micronutrients. Do not place tablets in bottom of hole; tablet shall be 1/2" from the bottom of the rootball.

ESTABLISHMENT PERIOD OF PLANT MATERIAL: Fertilizer for deciduous trees, shrubs and ground covers shall be 6% nitrogen, 6% phosphorus and 6% potassium with micronutrients and 10% of potassium. Fertilizer for evergreens shall be 13% nitrogen, 13% phosphorus and 13% of potassium. Fertilizer for palms shall be 13% nitrogen, 13% phosphorus and 13% of potassium. Contractor shall apply granular fertilizer at the manufacturer's recommended rates with major elements. Contractor shall apply granular fertilizer at the manufacturer's recommended rates with major elements. Contractor reserves the right to modify N-P-K ratio and shall submit product data sheets for review and acceptance prior to any application of plant material consistent with the above criteria.

6. WATERING: As 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 twice 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 landscape, along 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 sprayed as necessary to ensure 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.

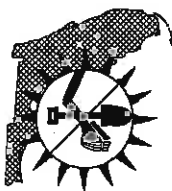
C. Ensure that the plants are maintained so that they are healthy, vigorous, and undamaged throughout the duration of the project construction period and establishment period.

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 fail 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.

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

CALL TWO FULL BUSINESS DAYS BEFORE YOU DIG IN FLORIDA



IT'S THE LAW
1-800-432-4770
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MILLER LEGG
1000 North Douglas Blvd., Suite 200, Pompano Beach, Florida 33064
954-68-3000 Fax: 954-68-3684 - www.millerlegg.com
City of Miami 11/20/2007 1:54 PM State of Florida 11/20/2007

CITY OF COCONUT CREEK	
ROAD NO.	COUNTY
7	BROWARD
07-00239	07-00239

LANDSCAPE NOTES

SHEET NO.	LD-4
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DATE OF VERIFICATION: 10/11/07

TREE NUMBER	COMMON NAME	BOTANICAL NAME	NATIVE?	DBH (in) for trees / Clear Trunk Height (ft) for palms	SPREAD (ft.)	CANOPY AREA (sq. ft.)	TO BE REMOVED	TO REMAIN	Notes/Condition
1	live oak	Quercus virginiana	Y	5	6	28.3		X	corrective pruning and fertilizer needed
2	live oak	Quercus virginiana	Y	5	15	176.6	X		co-dominant leader
3	live oak	Quercus virginiana	Y	4	8	50.2		X	corrective pruning and fertilizer needed
4	live oak	Quercus virginiana	Y	6	12	113.0	X		co-dominant leader
5	live oak	Quercus virginiana	Y	8	18	254.3		X	
6	cabbage palm	Sabal palmetto	Y	20				X	
7	cabbage palm	Sabal palmetto	Y	15				X	
8	cabbage palm	Sabal palmetto	Y	15				X	
9	cabbage palm	Sabal palmetto	Y	12				X	
10	cabbage palm	Sabal palmetto	Y	12				X	
11	cabbage palm	Sabal palmetto	Y	8				X	
12	cabbage palm	Sabal palmetto	Y	10				X	
13	cabbage palm	Sabal palmetto	Y	15				X	
14	cabbage palm	Sabal palmetto	Y	10				X	
15	cabbage palm	Sabal palmetto	Y	8				X	Leaning, adjust as needed.
16	cabbage palm	Sabal palmetto	Y	14				X	leader removed
17	live oak	Quercus virginiana	Y	3	6	28.3		X	co-dominant leader, trunk scoring of 3"-5"
18	live oak	Quercus virginiana	Y	4	8	50.2		X	
19	live oak	Quercus virginiana	Y	5	10	78.5		X	
20	live oak	Quercus virginiana	Y	4	6	28.3		X	
21	live oak	Quercus virginiana	Y	4	12	113.0		X	
22	live oak	Quercus virginiana	Y	6	10	78.5		X	
23	live oak	Quercus virginiana	Y	8	15	176.6		X	corrective pruning and fertilizer needed
24	live oak	Quercus virginiana	Y	5	8	50.2		X	co-dominant leader
25	live oak	Quercus virginiana	Y	7	18	254.3		X	within a taper or sight line
26	live oak	Quercus virginiana	Y	8	15	176.6		X	within a taper or sight line
27	live oak	Quercus virginiana	Y	6	15	176.6		X	leader snapped
28	live oak	Quercus virginiana	Y	6	15	176.6		X	corrective pruning and fertilizer needed
29	live oak	Quercus virginiana	Y	8	18	254.3		X	within a taper or sight line
30	live oak	Quercus virginiana	Y	6	15	176.6		X	co-dominant leader
31	live oak	Quercus virginiana	Y	7	18	254.3		X	within a taper or sight line
32	live oak	Quercus virginiana	Y	6	15	176.6		X	within a taper or sight line
33	live oak	Quercus virginiana	Y	7	16	201.0		X	
34	cabbage palm	Sabal palmetto	Y	12				X	
35	cabbage palm	Sabal palmetto	Y	10				X	
36	cabbage palm	Sabal palmetto	Y	10				X	
37	cabbage palm	Sabal palmetto	Y	12				X	
38	cabbage palm	Sabal palmetto	Y	12				X	
39	cabbage palm	Sabal palmetto	Y	10				X	
40	cabbage palm	Sabal palmetto	Y	10				X	
41	cabbage palm	Sabal palmetto	Y	10				X	
42	cabbage palm	Sabal palmetto	Y	12				X	
43	cabbage palm	Sabal palmetto	Y	10				X	
44	cabbage palm	Sabal palmetto	Y	10				X	
45	live oak	Quercus virginiana	Y	6	18	254.3		X	trunk scars
46	live oak	Quercus virginiana	Y	3	6	28.3		X	co-dominant leader, trunk scoring
47	live oak	Quercus virginiana	Y	10	20	314.0		X	

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* VARIANCE UNDER CONSIDERATION

REVISIONS		DATE		DESCRIPTION	
1					
MILLER LEGG 1800 South Dade Blvd., Suite 200, Doral, FL 33126 954-455-1551 • www.millerlegg.com Capt. of Labor: 1-800-833-7777 • Job # 10000337 • Job # 10000337 • Job # 10000337 CITY OF COCONUT CREEK ROAD NO. 7 COUNTY BROWARD PROJECT ID 07-00239					
EXISTING CONDITION CHART				SHEET NO. LD-5	

DATE OF VERIFICATION: 10/11/07

TREE NUMBER	COMMON NAME	BOTANICAL NAME	NATIVE?	DBH (in) for trees / Clear Trunk Height (ft) for palms	SPREAD (ft.)	CANOPY AREA (sq. ft.)	TO BE REMOVED	TO REMAIN	Notes/Condition
48	live oak	Quercus virginiana	Y	6	15	176.6		X	
49	live oak	Quercus virginiana	Y	5	15	176.6		X	
50	live oak	Quercus virginiana	Y	8	18	254.3	X		co-dominant leader, trunk scaring within a taper or sight line
51	live oak	Quercus virginiana	Y	7	12	113.0	X		within a taper or sight line, leader snapped
52	live oak	Quercus virginiana	Y	6	15	176.6	X		
53	live oak	Quercus virginiana	Y	8	28	613.4	X		within a taper or sight line
54	live oak	Quercus virginiana	Y	8	15	176.6	X		
55	live oak	Quercus virginiana	Y	6	12	113.0		X	corrective pruning and fertilizer needed, within 15 feet of over head electrical lines
56	live oak	Quercus virginiana	Y	8	15	176.6		X	within a taper or sight line
57	live oak	Quercus virginiana	Y	6	18	254.3	X		co-dominant leader, within a taper or sight line
58	live oak	Quercus virginiana	Y	8	20	314.0	X		within a taper or sight line, Corrective pruning and fertilizer needed
59	live oak	Quercus virginiana	Y	6	15	176.6	X		within a taper or sight line, Corrective pruning and fertilizer needed
60	live oak	Quercus virginiana	Y	8	15	176.6	X		severe trunk damage
61	live oak	Quercus virginiana	Y	8	20	314.0	X		Located between 3.5' and 4' from back of curb., Corrective pruning and fertilizer needed, within a taper or sight line
62	live oak	Quercus virginiana	Y	8	12	113.0	X		within a taper or sight line, Corrective pruning and fertilizer needed
63	live oak	Quercus virginiana	Y	10	15	176.6	X		co-dominant leader, within a taper or sight line
64	live oak	Quercus virginiana	Y	7	15	176.6	X		co-dominant leader, within a taper or sight line
65	live oak	Quercus virginiana	Y	8	15	176.6	X		co-dominant leader, corrective pruning and fertilizer needed.
66	live oak	Quercus virginiana	Y	8	10	78.5	X		within a taper or sight line, Corrective pruning and fertilizer needed
67	live oak	Quercus virginiana	Y	8	20	314.0	X		co-dominant leader, some bark damage
68	live oak	Quercus virginiana	Y	8	15	176.6	X		
69	cabbage palm	Sabal palmetto	Y	12	-	-		X	
70	cabbage palm	Sabal palmetto	Y	12	-	-	X		
71	cabbage palm	Sabal palmetto	Y	20	-	-		X	
72	cabbage palm	Sabal palmetto	Y	20	-	-		X	
73	cabbage palm	Sabal palmetto	Y	20	-	-		X	
74	cabbage palm	Sabal palmetto	Y	15	-	-		X	
75	cabbage palm	Sabal palmetto	Y	20	-	-		X	
76	cabbage palm	Sabal palmetto	Y	15	-	-	X		
77	cabbage palm	Sabal palmetto	Y	20	-	-	X		
78	cabbage palm	Sabal palmetto	Y	20	-	-	X		
79	cabbage palm	Sabal palmetto	Y	20	-	-	X		
80	cabbage palm	Sabal palmetto	Y	12	-	-		X	
81	cabbage palm	Sabal palmetto	Y	12	-	-	X		within a taper or sight line
82	cabbage palm	Sabal palmetto	Y	20	-	-		X	
83	cabbage palm	Sabal palmetto	Y	12	-	-		X	
84	cabbage palm	Sabal palmetto	Y	12	-	-		X	
85	cabbage palm	Sabal palmetto	Y	30	-	-	X		within a taper or sight line

* VARIANCE UNDER CONSIDERATION

DATE		REVISED	DATE	BY	DESCRIPTION
 MILLER LEGG 1800 Northridge Road - Suite 200 - Houston, Texas 77060 281-498-7200 • Fax 281-498-5564 • www.millerlegg.com Div. of JWA-10000031, L.A. of Houston, Texas 77060					
CITY OF COCONUT CREEK			PROJECT ID		
ROAD NO. 7			COUNTY BROWARD		
07-00239			SHEET NO. 10-6		

EXISTING CONDITION CHART

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DATE OF VERIFICATION: 10/11/07

TREE NUMBER	COMMON NAME	BOTANICAL NAME	NATIVE?	DBH (in) for trees / Clear Trunk Height (ft) for palms	SPREAD (ft.)	CANOPY AREA (sq. ft.)	TO BE REMOVED	TO REMAIN	Notes/Condition
86	cabbage palm	Sabal palmetto	Y	20	-	-		X	within a taper or sight line
87	cabbage palm	Sabal palmetto	Y	15	-	-	X		
88	cabbage palm	Sabal palmetto	Y	30	-	-		X	within a taper or sight line
89	cabbage palm	Sabal palmetto	Y	15	-	-	X		co-dominant leader, within a taper or sight line
90	live oak	Quercus virginiana	Y	8	15	176.6	X		within a taper or sight line
91	live oak	Quercus virginiana	Y	3	4	12.6	X		co-dominant leader, within a taper or sight line
92	live oak	Quercus virginiana	Y	6	15	176.6	X		co-dominant leader, trunk scars of 3'6", Located between 3' and 4' from back of curb.
93	live oak	Quercus virginiana	Y	6	10	78.5	X		within a taper or sight line
94	live oak	Quercus virginiana	Y	10	10	78.5	X		Located between 3.5' and 4' from back of curb., corrective pruning and fertilizer needed
95	live oak	Quercus virginiana	Y	8	10	78.5	X		co-dominant leader, Located between 3.5' and 4' from back of curb.
96	live oak	Quercus virginiana	Y	6	12	113.0	X		Located between 3.5' and 4' from back of curb.
97	live oak	Quercus virginiana	Y	6	15	176.6	X		under over head electrical lines
98	live oak	Quercus virginiana	Y	8	15	176.6	X		corrective pruning and fertilizer needed, within a taper or sight line
99	live oak	Quercus virginiana	Y	8	15	176.6	X		co-dominant leader, corrective pruning and fertilizer needed
100	live oak	Quercus virginiana	Y	6	20	314.0	X		corrective pruning and fertilizer needed
101	live oak	Quercus virginiana	Y	10	15	176.6	X		corrective pruning and fertilizer needed
102	live oak	Quercus virginiana	Y	8	18	176.6	X		co-dominant leader, within a taper or sight line
103	live oak	Quercus virginiana	Y	6	15	176.6	X		corrective pruning and fertilizer needed, within a taper or sight line
104	live oak	Quercus virginiana	Y	8	15	176.6	X		leaning, straightening needed, corrective pruning and fertilizer needed, within a taper or sight line
105	live oak	Quercus virginiana	Y	8	18	254.3	X		co-dominant leader, within a taper or sight line
106	live oak	Quercus virginiana	Y	6	18	254.3	X		co-dominant leader
107	live oak	Quercus virginiana	Y	8	20	314.0	X		Leader snapped, Located between 3.5' and 4' from back of curb.
108	live oak	Quercus virginiana	Y	6	10	78.5	X		
109	live oak	Quercus virginiana	Y	8	15	176.6		X	leaning, straightening needed, Located between 3.5' and 4' from back of curb.
110	live oak	Quercus virginiana	Y	8	18	254.3	X		co-dominant leader
111	live oak	Quercus virginiana	Y	12	20	314.0	X		within a taper or sight line
112	live oak	Quercus virginiana	Y	8	18	254.3	X		trunk damage, 90% dead
113	live oak	Quercus virginiana	Y	8	15	176.6	X		6' stump
114	live oak	Quercus virginiana	Y	6	15	176.6	X		corrective pruning and fertilizer needed
115	live oak	Quercus virginiana	Y	6	15	176.6		X	corrective pruning and fertilizer needed, within a taper or sight line
116	live oak	Quercus virginiana	Y	4	8	50.2	X		dead
117	live oak	Quercus virginiana	Y	6	15	176.6	X		
118	live oak	Quercus virginiana	Y	8	15	176.6	X		
119	live oak	Quercus virginiana	Y	6	12	113.0		X	

* VARIANCE UNDER CONSIDERATION

DATE		DESCRIPTION		REVISIONS		CITY OF COCONUT CREEK		MILLER LEGG PROJECT ID		SHEET NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	MILLER LEGG PROJECT ID	07-00239	LD-7	
						7	BROWARD				
						MILLER LEGG 1020 South Douglas Road - Suite 200 - Pompano Beach, Florida 33064 954-495-2000 - Fax 954-465-8664 - www.millerlegg.com Cert. of Inc. 1-0000887 - L.A. of Record Book 2, Page 14-666070					

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DATE OF VERIFICATION: 10/11/07

TREE NUMBER	COMMON NAME	BOTANICAL NAME	NATIVE?	DBH (in) for trees / Clear Trunk Height (ft) for palms	SPREAD (ft.)	CANOPY AREA (sq. ft.)	TO BE REMOVED	TO REMAIN	Notes/Condition
120	live oak	Quercus virginiana	Y	8	18	254.3	X	X	corrective pruning and fertilizer needed
121	live oak	Quercus virginiana	Y	8	20	314.0			
122	live oak	Quercus virginiana	Y	6	18	254.3	X		stump
123	live oak	Quercus virginiana	Y	6	12	113.0	X		co-dominant leader,
124	live oak	Quercus virginiana	Y	6	15	176.6	X	X	co-dominant leader
125	live oak	Quercus virginiana	Y	8	12	113.0	X	X	
126	live oak	Quercus virginiana	Y	6	12	254.3		X	leaning, straightening needed
127	live oak	Quercus virginiana	Y	6	12	113.0		X	
128	live oak	Quercus virginiana	Y	6	12	113.0		X	

* VARIANCE UNDER CONSIDERATION

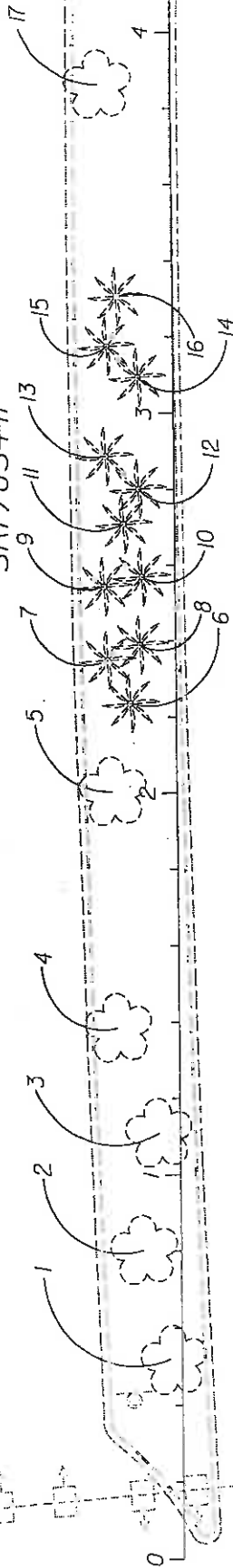
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MILLER LEGG 1800 North Douglas Road, Suite 100, Fort Lauderdale, FL 33304 954-552-7800 • Fax: 954-552-8881 • www.millerlegg.com Cert. of Lic. #10000597, L.A. of Forest Plant & Soil #1668770		EXISTING CONDITION CHART		10/11/07 10/11/07



F.D.O.T. RETENTION AREA

SAWGRASS
EXPRESSWAY
RAMP

SR7/US441



4+49.00

REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY

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City of Annapolis, MD - L.A. of Annapolis, MD - L.A. of Annapolis, MD

CITY OF COCONUT CREEK
ROAD NO. 7 COUNTY BROWARD PROJECT ID 07-00239

EXISTING CONDITION PLAN

SHEET NO. LD-9

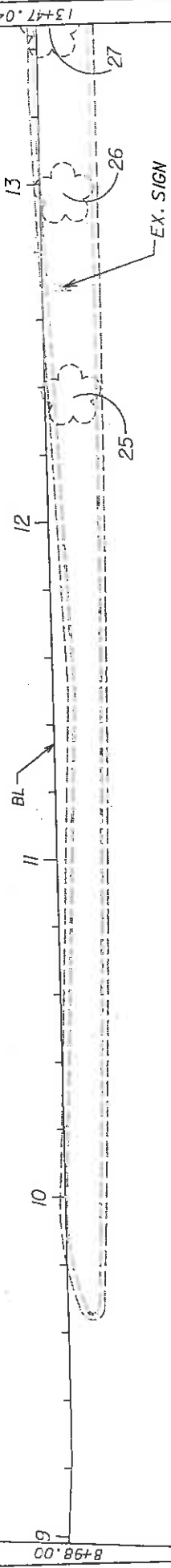
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RESIDENTIAL



R/W

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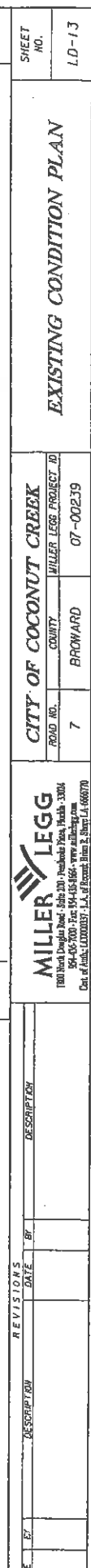
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EX. HYDRANT

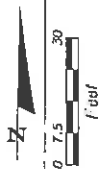
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VACANT LAND

SHEET NO. LD-11		EXISTING CONDITION PLAN													
CITY OF COCONUT CREEK FOLD NO. 7		MILLER LEGG PROJECT ID 07-00239													
COUNTY BROWARD		DATE 07/20/08													
MILLER LEGG 1800 North Douglas Road, Suite 201, Fort Lauderdale, Florida 33304 954-445-1000 Fax: 954-445-1001 Cadd: 11/11/07 11/11/07 11/11/07 11/11/07 11/11/07		REVISIONS <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		DATE	BY	DESCRIPTION									
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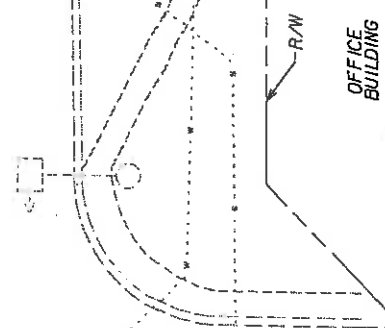


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EX. SIGNS (3)

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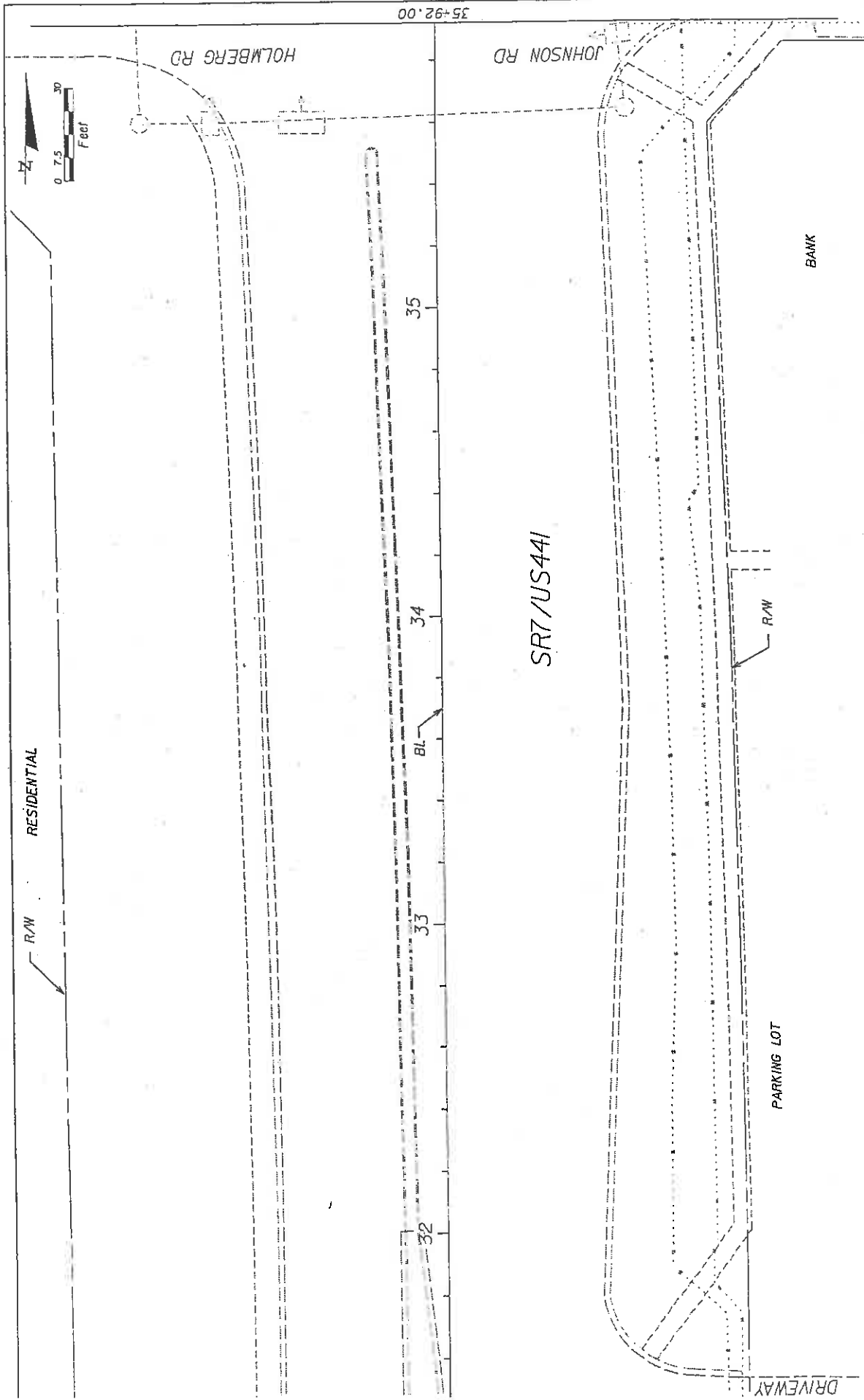


REGENCY LAKES BLVD

MC DONALD'S RESTAURANT

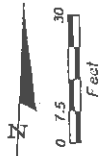
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NO.	DATE	BY	DESCRIPTION	NO.	DATE
1				LD-14	
		ROAD NO. 7		COUNTY BROWARD	
		MILLER LEGG PROJECT ID 07-00239			

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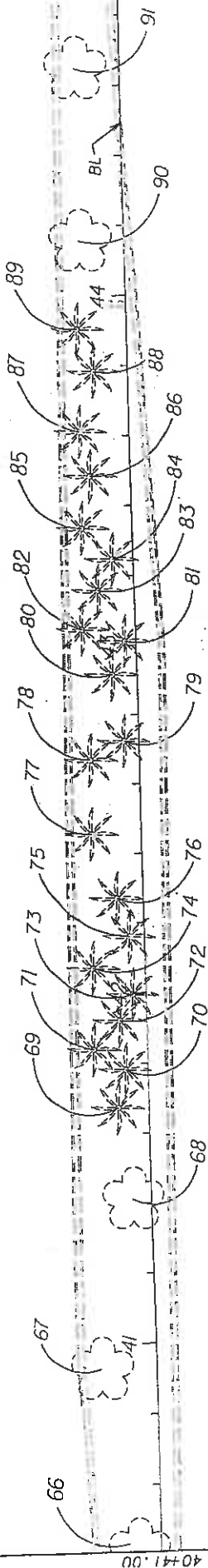
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		BROWARD	
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		MILLER LEGG	
		1801 Ward Douglas Road - Suite 200 - Fort Lauderdale, Florida - 33304	
		954-435-7001 • Fax: 954-435-8551 • www.millerlegg.com	
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SR7/US441



RESIDENTIAL

R/W



44+90.00

40+41.00

SR7/US441

DRIVEWAY

RETAIL

R/W

COMMERCIAL

REVISIONS

DATE

BY

DESCRIPTION

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City of Fresno, CA
City of Fresno, CA

CITY OF COCONUT CREEK

MILLER LEGG PROJECT ID

ROAD NO.

7

COUNTY

BROWARD

PROJECT NO.

07-00239

EXISTING CONDITION PLAN

SHEET NO.

LD-18

DATE

6/4/2008

SCALE

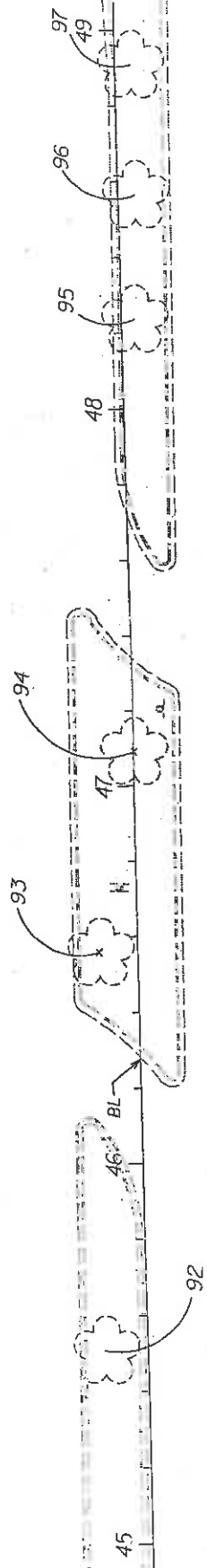
AS SHOWN

City of Coconut Creek, Florida



RESIDENTIAL

R/W



SR7/US441

EX. HYDRANT
R/W
DRIVEWAY

COMMERCIAL

COMMERCIAL

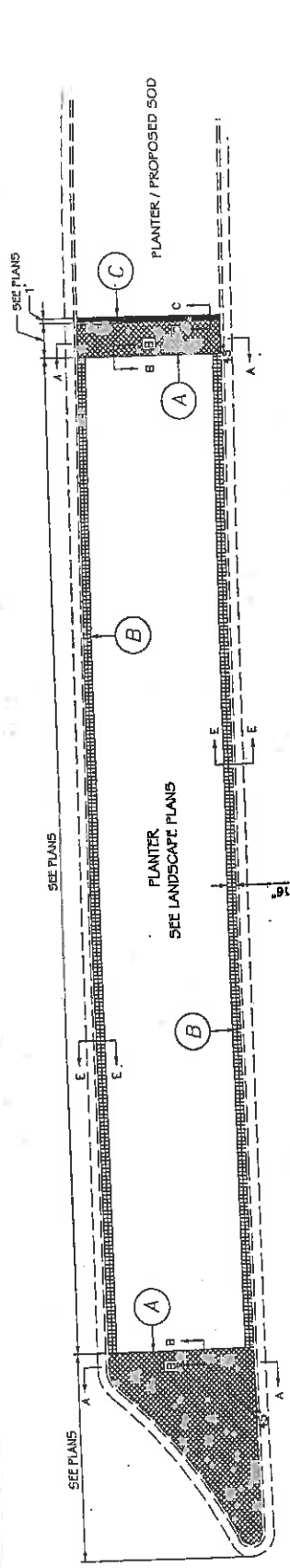
REVISIONS		DESCRIPTION	
DATE	BY	DESCRIPTION	DATE

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City of Jacksonville, Division of Engineering

CITY OF COCONUT CREEK
ROAD NO. 7
COUNTY BROWARD
MILLER LEGG PROJECT ID 07-00239

EXISTING CONDITION PLAN

SHEET NO. LD-19
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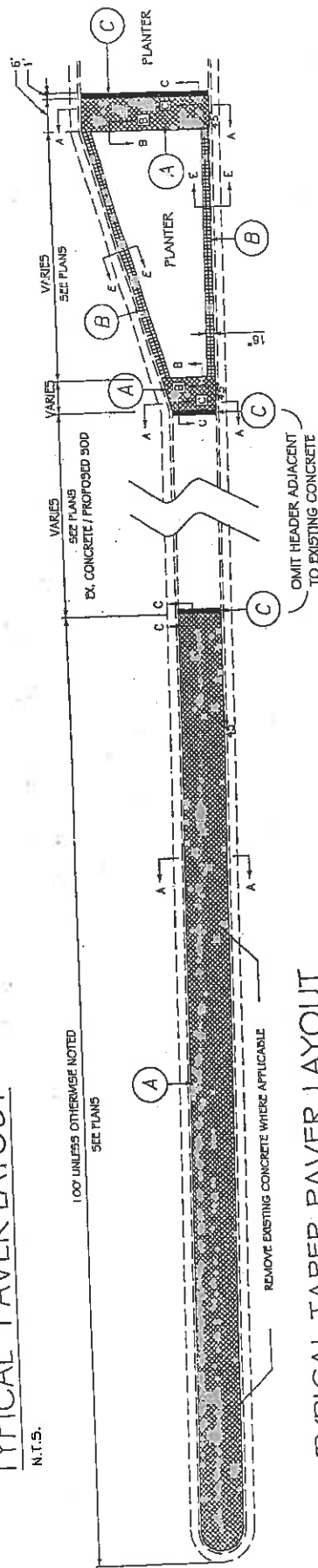


TYPICAL PAVER LAYOUT

N.T.S.

100' UNLESS OTHERWISE NOTED

SEE PLANS



TYPICAL TAPER PAVER LAYOUT

N.T.S.

PAVING LEGEND

A SPECIALITY PAVING FIELD TO BE 8' X 8' CITY SQUARE CONCRETE PAVERS BY HANSON PAVERS FOR APPROVED EQUAL ON 1-1/2" SAND SETTING BED ON COMPACTED SUBGRADE. COLOR TO BE P-16 CITY SQUARE PINK/NATURAL GRAY COLOR MIX COMBINATION. PAVERS TO BE LAID IN A 45 DEGREE ANGLE TO THE NON-ANGLED ADJACENT CURB.

B 16' WIDE SPECIALITY PAVING BANDING TO BE DOUBLE ROW OF 8' X 8' CITY SQUARE CONCRETE PAVERS BY HANSON PAVERS FOR APPROVED EQUAL ON 1-1/2" SAND SETTING BED OVER COMPACTED SUBGRADE. COLOR TO BE P-16 CITY SQUARE PINK/NATURAL GRAY COLOR MIX COMBINATION. PAVES BANDING TO BE LAID PARALLEL TO THE ADJACENT CURB.

C 12' WIDE BROOM FINISH CONCRETE HEADER.

SPECIALTY PAVING GENERAL NOTES

1. SPECIALTY PAVERS AVAILABLE THROUGH HANSON PAVERS (954) 972-7400 OR (800) 273-7004
2. HIDDEN CONCRETE BACKFILL SHALL BE REQUIRED BETWEEN 16' WIDE PAVES BANDING AND THE ADJACENT PLANTER.
3. CONTRACTOR TO PRESURE CLEAN ALL EXISTING CONCRETE SURFACES AFTER COMPLETION OF PAVERS AND/OR MATERIAL INSTALLATION. CONTRACTOR TO PROVIDE TWO (2) LBS OF SEALANT ON ALL CONCRETE PAVERS. CONTRACTOR TO SUBMIT SAMPLE OF SEALANT FOR APPROVAL BY CITY BEFORE INSTALLATION.
4. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIR AND/OR REPLACEMENT OF ALL EXISTING CURBING AND/OR CONCRETE SURFACES DAMAGED DURING PAVES AND/OR PLANT MATERIAL INSTALLATION.
5. CONTRACTOR TO SUBMIT SAMPLES OF PAVERS FOR REVIEW.
6. CONTRACTOR SHALL CONSTRUCT A SAMPLE LAYOUT AREA TO BE REVIEWED BY CITY / AND OR CITY REPRESENTATIVE.
7. CITY / AND OR CITY REPRESENTATIVE SHALL REVIEW AND HAVE THE RIGHT TO ADJUST PAVERS FOR CUTS AND LAYOUT.

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City of Jacksonville, FL, at (904) 251-1111, Ext. 14, 666770

CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

HARDSCAPE NOTES AND DETAIL

SHEET NO.

LD-30

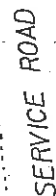
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F.D.O.T. RETENTION AREA



COMMERCIAL

DRIVEWAY

COMMERCIAL

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ROAD NO.	COUNTY	WILLER LEBO PROJECT
7	BROWARD	07-00239

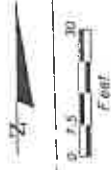
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<i>LANDSCAPE / HARDSCAPE PLAN</i>	
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RESIDENTIAL

R/W



SR7/US441

510' PER INDEX 546

478' PER AASHTO

13+47.04

6' CLEAR ZONE

6' CLEAR ZONE

EX. SIGN

3' SOD

35 JAS

SOD

BL

NW 61 ST

EX. HYDRANT

NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES
TO MINIMIZE CONFLICTS WITH UTILITIES

R/W

VACANT LAND

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

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1800 West Design Center, Suite 200, Brea, CA 92603
Phone: 949.455.5555 Fax: 949.455.5556
www.millerlegg.com
Calif. Lic. No. C-110000077, L.A. of Record: June 8, 2004, LA-668770

CITY OF COCONUT CREEK
MILLER LEGG PROJECT ID

ROAD NO.	COUNTY
7	BROWARD

07-00239

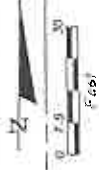
LANDSCAPE / HARDSCAPE PLAN

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LD-34

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R/W RESIDENTIAL



SR7/US441

4 SY
CONCRETE
PAVERS

EX. SIGNS (3)

510' PER INDEX 546

478' PER AASHTO

26

25

24

500

3' OF 57'

25+94.01

22+45.00

REGENCY LAKES BLVD.
SIGNALIZED INTERSECTION
FLASHING OPERATION

REGENCY LAKES BLVD

NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES
TO MINIMIZE CONFLICTS WITH UTILITIES

MC DONALD'S
RESTAURANT

DRIVEWAY

R/W

OFFICE
BUILDING

SHEET
NO.

LD-37

LANDSCAPE / HARDSCAPE PLAN

CITY OF COCONUT CREEK

WILLER LEGG PROJECT ID

07-00239

COUNTY

BROWARD

ROAD NO.

7

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City of Fort Lauderdale, Florida, License No. 120000001-1, L.A. 120000001-1

DESCRIPTION

REVISIONS

DATE

DESCRIPTION

DATE

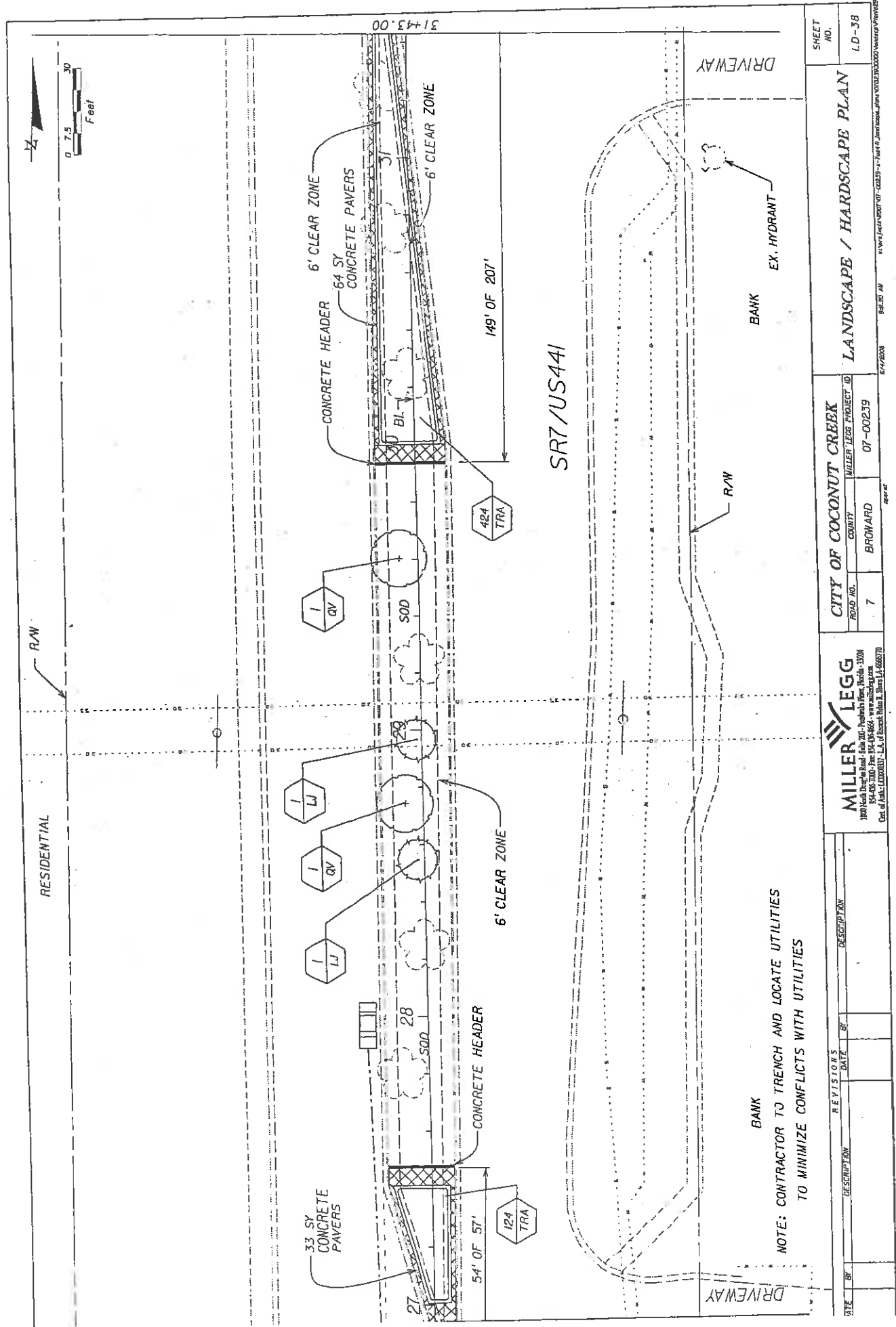
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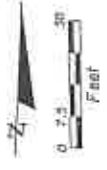
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6/4/2008

REPORT

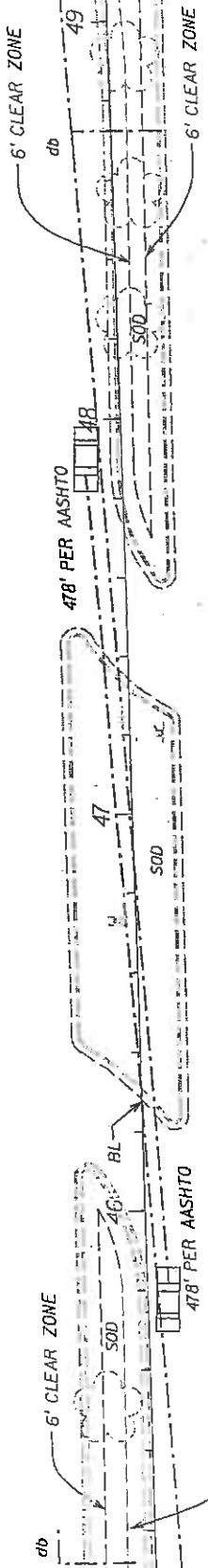
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RESIDENTIAL

R/W



SR7/US441



NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES

COMMERCIAL

REVISIONS		DATE	BY	DESCRIPTION
1	RF			
CITY OF COCONUT CREEK				
ROAD NO.		COUNTY	VILLER LEGG PROJECT ID	
7		BROWARD	07-00239	
MILLER LEGG				
180 North Douglas Blvd., Suite 200, Jacksonville, Florida 32204 904-450-0000, Fax: 904-450-0001, mlegg@mllegg.com Cora Miller, P.E., 12300 N.W. 11th Street, Suite 300, Ft. Lauderdale, FL 33309				
SHEET NO.		LANDSCAPE / HARDSCAPE PLAN		
LD-42		6/17/2008		

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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 contractor shall be responsible for the interpretation of the codes. 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.

This 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's 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.'s are new Hoover Pumping Stations (Pump A Model HCF-10PD-230/3-A-E-1 G.M.W and Pump B Model HCF-10PD-230/3-A-E-12 M.W) utilizing proposed wells. Each P.O.C. must be capable of delivering a minimum of 80 GPM at 175 TDH. 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 10'-24" away from either the back of curb, front of walk, back of walk, or other landscape 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 landscapes, such as roads, pavers, and walks, the pipes must be sleeved using High Density Polyethylene (HDPE) under existing roadways and sidewalks where directional bore is utilized and 4" PVC elsewhere with the sleeve diameter being twice the size of the pipe it is carrying with a minimum sleeve size of 2".

REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY

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Dist. of Florida: L20000351 - L.A. of Record: 11/11/2007

CITY OF COCONUT CREEK
ROAD NO. 7 COUNTY BROWARD PROJECT ID 07-00239

IRRIGATION NOTES
SHEET NO. LD-53

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Mainline shall be Class 200 galvanized 1/2" min PVC with Paraco ductile iron fittings (sized per plans).

Contractor to ensure all mainline piping is properly restrained using mechanical joint fittings, restraining collars, threaded rods, thrust blocks, 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 270 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 supplies for required electrical components as set forth in the irrigation plans.

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 controllers shall be 120 volts. Power for Pumps A & B 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:

- #12 white for common
- #12 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 4X8X5/8" copper grounding plates, 5/8X10" 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.

INSTALLATION GENERAL NOTES AND SPECIFICATIONS (CONTINUED)

closest valve to the F.O.C. should be the less time interval.

... .. observed to be traffic rated boxes.

PLANTING

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

to 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 whether it needs to be replaced and the acceptability of the replacement material shall be solely up to the owner or owner's representative.

Upon completion, the glue joint is waterproofed. The joint must cure a minimum of 30 minutes prior to handling and placing into trenches. A longer curing time may be required; refer to the product literature for details. The glue must be applied at least 24 hours prior to filling with water.

... shall be 30° minimum, including at vehicular crossings.

intractor shall backfill all piping, both mainline and laterals, prior to performing any pressure tests. The pipe shall be dilled with the exception of 2' on each side of every joint (bell fittings, 90's, tees, 45's, etc.). These joints shall not be tested. The remaining test shall be 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.

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.

Operational Testing - Upon completion of back filling, finish grading and contouring, test the entire system for proper operation; including electronically 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.

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, manifold, 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 understand, detailed, small components of the irrigation system.

Furnish extra materials described below that match products installed and that are packaged with protective covering for will fit inside of the controller door. The reduction shall be dimensionally accurate. Include the following:

- FINAL ACCEPTANCE**
Final acceptance of the irrigation system will be given after the following documents and conditions have been completed:

Final result: the need correction of all bunch 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 _____ calendar year from the time of final acceptance.

[illegible]



... THE NAVICOM ESP 800 SATELLITE CONTROLLER

RAIN BIRD MAXICOM® ESP-3-SITE SATELLITE CONTROLLER.

The controller shall be a single unit containing a telephone modem card (dial-tone telephones or Canadian telephones), a microprocessor, and a serial encoder module. The controller will be housed in

The controller shall be of a hybrid type that combines electromechanical and microprocessor-based technology. It shall have a cast aluminium housing, be weatherproof, lockable, 16-gauge stainless steel cabinet suitable for wall mounting, a plastic NEMA-4 rated wall mount cabinet, or free-standing stainless steel pedestal mounting.

The controller shall be capable of actuating up to two 24 VAC, 7VA solenoid valves per station plus a master valve or pump start relay.

11.1.2 VAC + 10W power maint and be capable of actuating up to two 24 VAC, 7VA solenoid valves per station plus a master valve or pump start relay.

11.1.3 VAC + 10W power maint and be capable of actuating up to two 24 VAC, 7VA solenoid valves per station plus a master valve or pump start relay.

The controller shall be capable of operating four stations plus the master valve simultaneously. Contactor output shall be programmable to operate at different start times, watering days, day cycles, and station timing. Each program

As a stationmaster who controls the train, I shall have eight start times per day. I shall have 2 stations, with each station capable of an operating time of 0 to 2 hours in one-minute increments and 2 to 12 hours in one-minute increments or overstep.

The controller shall have a 365-day calendar with day-of-the-month ON/OFF feature. Programs will run on an ODD/EVEN day cycle, day-of-the-week ON/OFF cycle, or in cycles from 1 to 99 10-minute increments. Controller station operation shall be of automatic sequential sequencing to allow overlapping of 10-minute increments. Controller station operation shall be of automatic sequential sequencing to allow overlapping of 10-minute increments.

days. In addition, the controller shall have a programmable rain shutdown feature that will shut down the pump start circuits for use with a master valve to pressurize the system when the irrigation cycle starts or to activate a remote pump to activate a remote pump at all times.

[illegible]

The controller shall be capable of running a variable system test program which allows adjusting the test program to meet the test program. This controller shall be capable of operating each station for a maximum soak time and a minimum soak time to reduce water run-off affecting the test program. The controller shall have Cycle+Soak™ water management software which is capable of operating each station for a maximum cycle time and a minimum cycle time to reduce water run-off affecting the test program. The controller shall be extended by water budgeting.

The controller shall have an internal nonvolatile memory which will retain the irrigation program and the programmed date and time for a minimum of 100 years without power. A 9 VDC rechargeable battery and recharging circuit shall also be included for counting down the program-in-progress during a power outage and shall allow programming of the controller when it is not powered from the main power supply.

disconnected from the main power supply. There shall be a station indicator light on the front panel of the station. There shall be a station status indicator light and a master valve status indicator light. These lights will indicate station operation and circuit integrity. An indicator for sensor stand-alone status will be found on the front panel along with a switch to suspend sensor operation. The controller shall be as follows:



Page: Bird_Mexcom2_FSP_SITE Field Satellite Controller



Construction & Grounding Rod Grid Detail

[illegible][illegible]

Hoover Pumping Station: Pump A - STA 37+64.17

FDOT SR7 COCONUT CREEK PUMP B
CENTRIFUGAL PUMP SYSTEM DETAIL
FIBERGLASS ENCLOSED SINGLE WELL SUCTION
PRESSURE DEMAND

Hoover Pumping Station: Pump B - STA 80+61.32

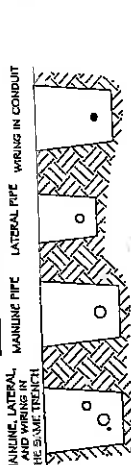
ROAD NO.	COUNTY	WILLER LEASE PROJECT ID
7	BROWARD	07-00239

IRRIGATION DETAILS

SHEET

LD-56

ELECTRICAL SPECIFICATIONS



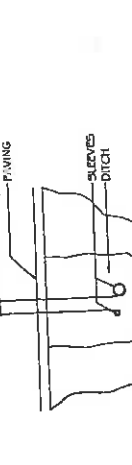
1. 90 INCH LINEAR LENGTH OF VALVE COIL
2. WATERPROOF CONNECTION BETWEEN VALVE COIL AND VALVE BODY
3. 3" MAINLINE PIPE
4. 3" MAINLINE PIPE
5. 3" MAINLINE PIPE
6. 3" MAINLINE PIPE
7. 3" MAINLINE PIPE
8. 3" MAINLINE PIPE
9. 3" MAINLINE PIPE
10. 3" MAINLINE PIPE
11. 3" MAINLINE PIPE
12. 3" MAINLINE PIPE
13. 3" MAINLINE PIPE
14. 3" MAINLINE PIPE
15. 3" MAINLINE PIPE
16. 3" MAINLINE PIPE

PEB SERIES VALVE PRESSURE LOSS	100-PEB PSI LOSS	150-PEB PSI LOSS	200-PEB PSI LOSS
FLOW GPM			
5	1.7		1.055
10	1.8		
20	2.9		
30	5.6	3.6	
40		9.5	
50		3.6	4.5
75		5.4	5.2
100			8.2
125			

NOTES:

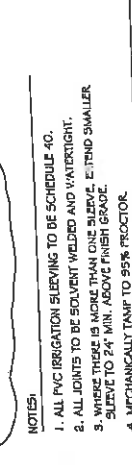
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCH 40 PVC TWICE THE OUTSIDE OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.

SECTION VIEW



1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCH 40 PVC TWICE THE OUTSIDE OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.

PLAN VIEW



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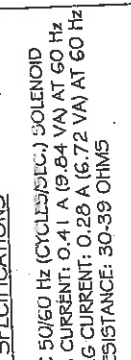
NOTES:

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

SECTION VIEW N.T.S.



IRRIGATION DETAILS

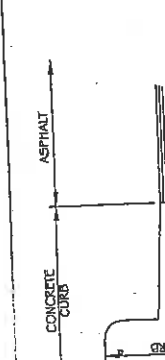


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SECTION VIEW N.T.S.

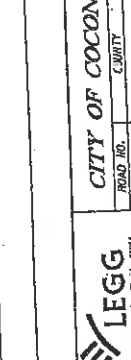


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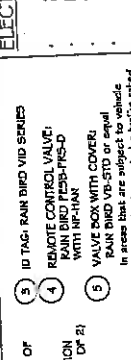


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SECTION VIEW N.T.S.



IRRIGATION DETAILS

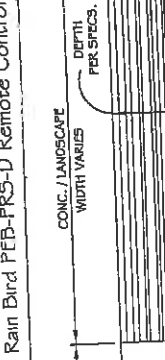


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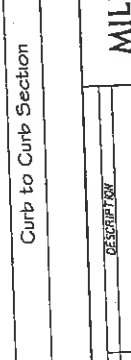


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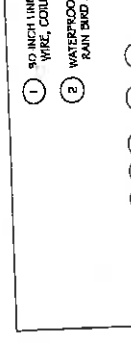


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SECTION VIEW N.T.S.



IRRIGATION DETAILS

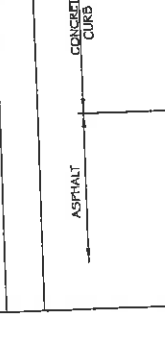


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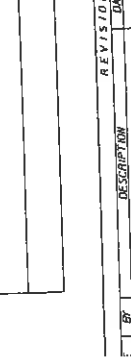


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SECTION VIEW N.T.S.





1	1 1/2	65.7
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BEGIN PROJECT
BEGIN IRRIGATION
STA: 0+00

3. Routing order or median is shown to the quantity of

SYMBOL	MANUFACTURER/MODEL / DESCRIPTION	QUANTITY	ARC	PSEI	GPM	RADIUS
	Rein Bldg 1812-SAM-PRS 12 Series MPR Struts Spray 12" pop-up with check valve, pressure regulator	9	360	30	2.6	12"
	Rein Bldg 1812-SAM-PRS 12 Series MPR Struts Spray 12" pop-up with check valve, pressure regulator	2	180	30	1.3	12"
	Rein Bldg 1812-SAM-PRS 15 Series MPR Struts Spray 12" pop-up with check valve, pressure regulator	20	180	30	1.8	15"
	Rein Bldg 1812-SAM-PRS 15 Series MPR Struts Spray 12" pop-up with check valve, pressure regulator	4	90	30	0.9	15"
	Rein Bldg 1812-SAM-PRS-1400 Flood Flood Bubbler 6" pop-up with check valve and pressure regulator	30	360	30	0.5	1"
SYMBOL	MANUFACTURER/MODEL / DESCRIPTION	QUANTITY	PSEI	GPM	RADIUS	
	Rein Bldg 5004-MPR-SAM Turf Rotator, 4" pop-up, matched precipitation rotor, Split-A-Matic check valve, arc and radius as per symbol. 25 1"-x-60, 30 1 1/2"-green, 35 1 1/2"-beige	2	43	1.0	25'	
	Rein Bldg 5004-MPR-SAM Turf Rotator, 4" pop-up, matched precipitation rotor, Split-A-Matic check valve, arc and radius as per symbol. 25 1"-x-60, 30 1 1/2"-green, 35 1 1/2"-beige	17	43	2.0	25'	
SYMBOL	MANUFACTURER/MODEL / DESCRIPTION	QUANTITY	ARC	PSEI	GPM	RADIUS
	Rein Bldg PEB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	1				
	Rein Bldg PEB-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator.	2				
	Ingration Lateral Line PVC Class 200 3/4"	1168				
	Ingration Lateral Line PVC Class 200 1"	340				
	Ingration Lateral Line PVC Class 200 1 1/4"	38				
	Ingration Lateral Line PVC Class 200 1 1/2"	8				
	Ingration Lateral Line PVC Class 200 2"	18				
	Ingration Lateral Line PVC Class 200 2 1/2"	236				
	Ingration Lateral Line PVC Class 200 3"	85				

COMMERCIAL

DRIVEWAY

CITY OF COCONUT CREEK

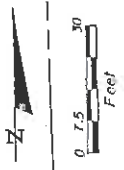
MILLER LEGG
1800 North Douglas Road - Suite 200 - Peachtree Plains, Florida 33004
564-436-7100 - Fax 564-436-9564 - www.millerlegg.com
e-mail: info@mlrlegg.com
e-mail: info@mlrlegg.com
e-mail: info@mlrlegg.com

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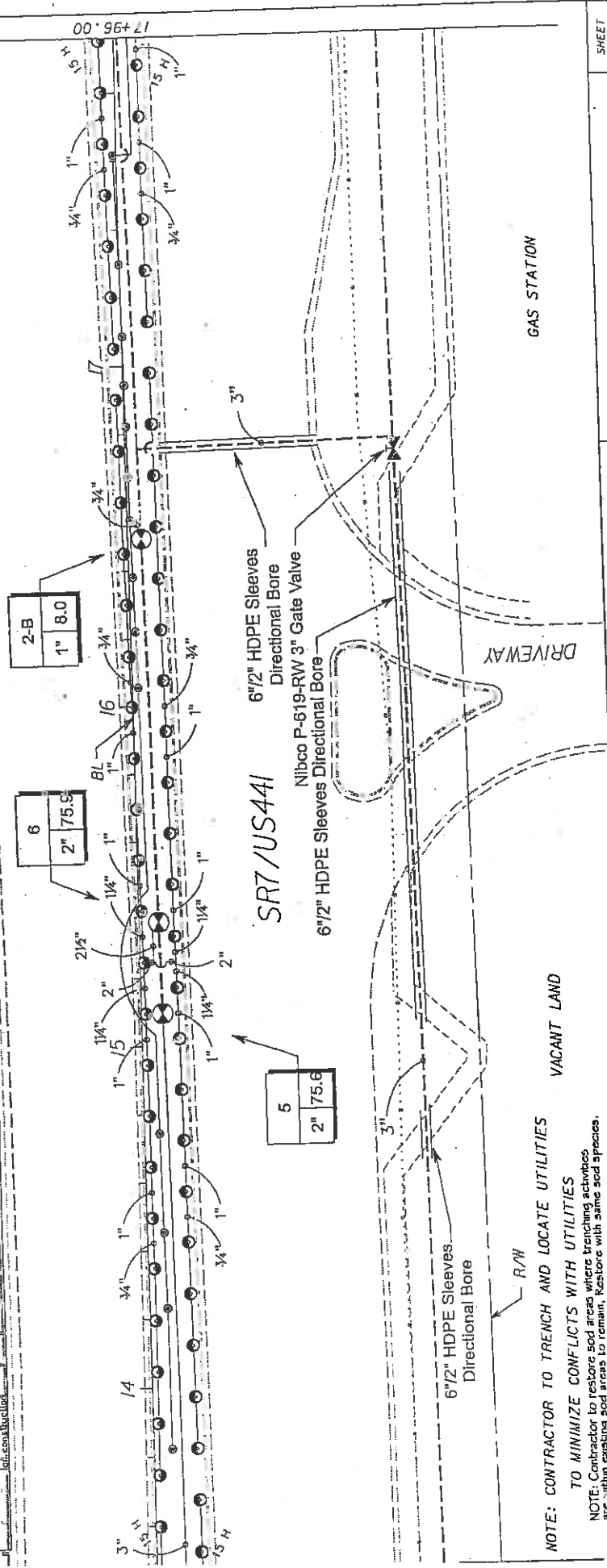
NO. LD-59

IRRIGATION PLAN

DATE: 01/01/2000 TIME: 10:00:00



SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	AFC	P/S	GPM	RADIUS
①	Gain Bird 100S-SAM-Regulator Main Line 15 Series WEP Turf Spray 6" pop-up with check valve and pressure regulator	60	180	30	1.9	15"
②	Gain Bird 100S-SAM-Regulator Main Line 15 Series WEP Turf Spray 6" pop-up with check valve and pressure regulator	14	360	30	0.5	1"
③	Gain Bird PEB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	1				
④	Gain Bird PEB-PRS-D 2" Electric Remote Control Valve with Pressure Regulator.	2				
⑤	Musco P-619 Cartridge Valve Box Rigilgon Lateral Line PVC Class 200 3/4"	907				
⑥	Rigilgon Lateral Line PVC Class 200 1 1/4"	306				
⑦	Rigilgon Lateral Line PVC Class 200 1 1/4"	45				
⑧	Rigilgon Lateral Line PVC Class 200 2"	11				
⑨	Rigilgon Lateral Line PVC Class 200 2 1/2"	159				
⑩	Rigilgon Lateral Line PVC Class 200 3"	808				
⑪	⑪ Mailing: PVC Class 200 3" Pipe sleeve size 100' Pipe Sleeve: HDPE typical pipe sleeve for rigilgon pipe. Pipe sleeve size shall allow for rickon piping and their related couplings to be installed through existing material. Extend sleeves 18" beyond existing edges, allowing for overlap.	213				



NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES
TO MINIMIZE CONFLICTS WITH UTILITIES
NOTE: CONTRACTOR TO RESTORE SOIL AREAS WHERE TRENCHING ACTIVITIES
HAVE CREATED SOIL AREAS TO REMAIN. RESTORE WITH SAME SOIL SPECIES,
VEGETATION, AND PLANTING.

NOTES

[illegible]

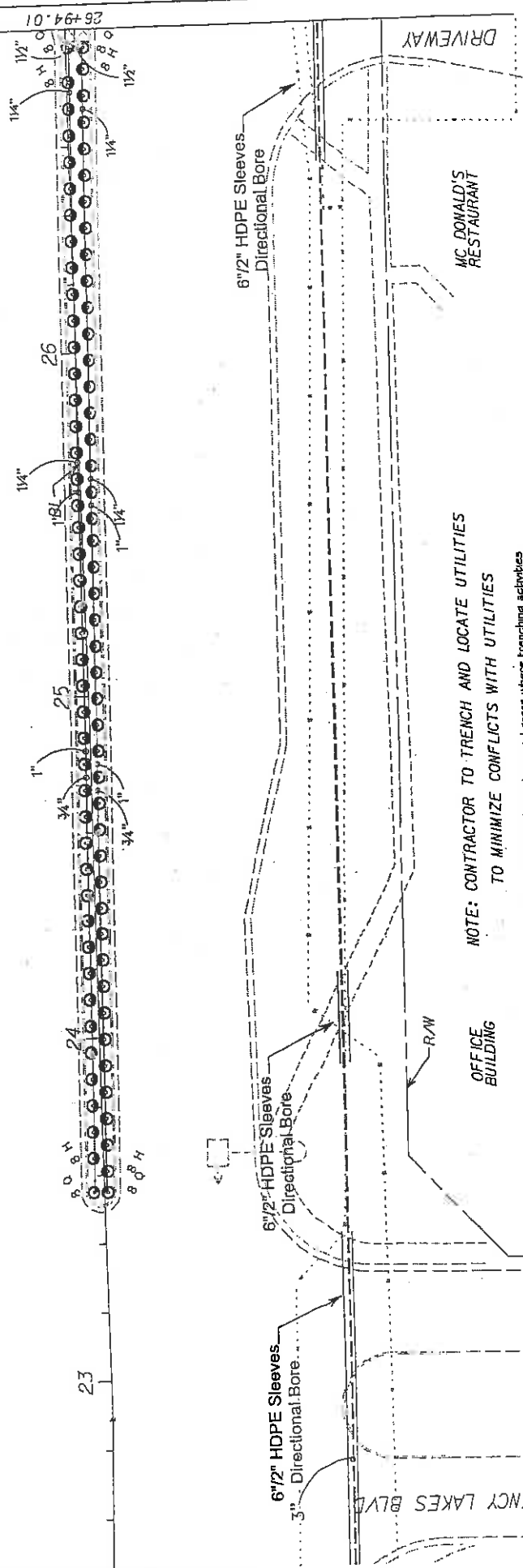
R/W RESIDENTIAL

- NOTES:
1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along curbline 10'-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
●	Rain Bird 1808-SAM-PRS B Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	60	180	30	0.5	8'
●	Rain Bird 1808-SAM-PRS B Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	4	90	30	0.3	8'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY				
—	Irrigation Lateral Line: PVC Class 200 3/4"	310				
—	Irrigation Lateral Line: PVC Class 200 1"	34				
—	Irrigation Mainline: PVC Class 200 1 1/4"	449				
—	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation pipe and their related couplings to easily slide through existing material. Extend sleeves 18 inches beyond edges of paving for construction.	126				

SR7/US44I

EX. SIGNS (3)



NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES

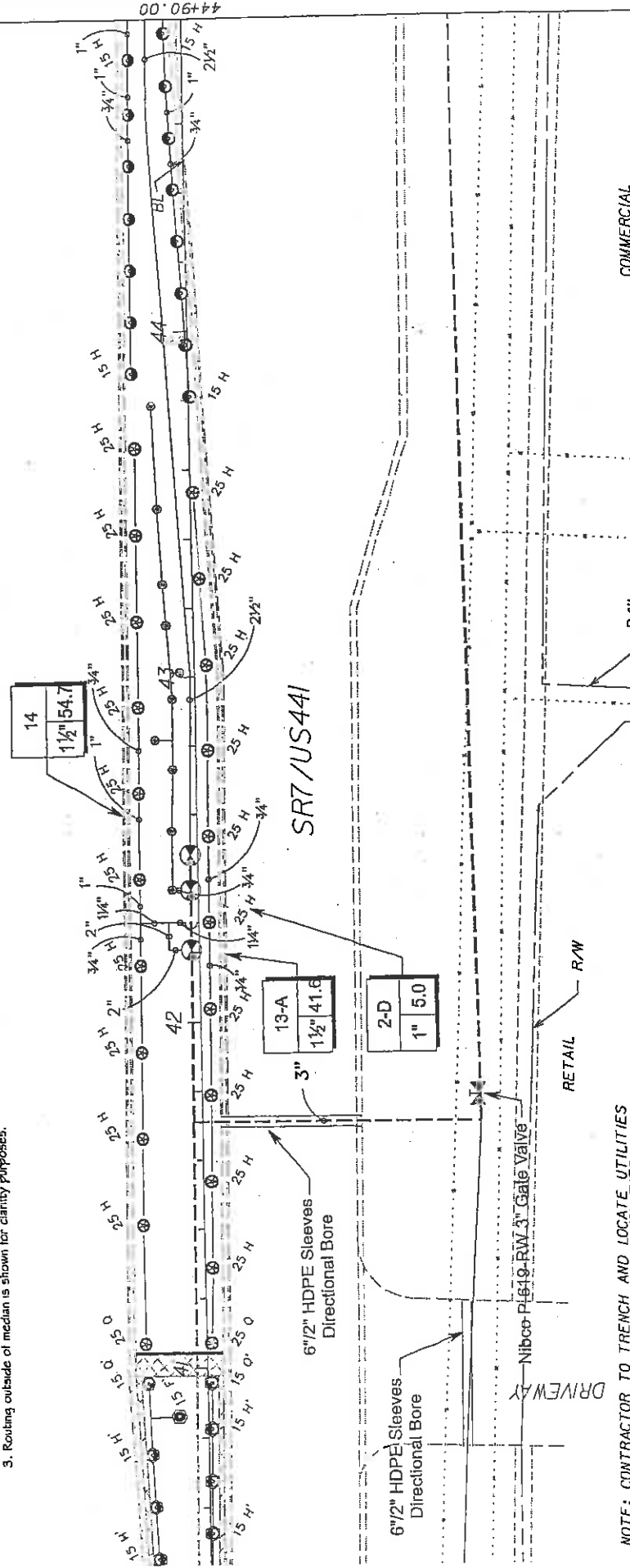
NOTE: Contractor to restore sod areas where trenching activities are within existing sod areas to remain, Restore with same sod species.

DATE		BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION
MILLER LEGG 1800 North Douglas Road, Suite 200, Pompano Beach, Florida 33061 954-935-3000, Fax 954-935-3661, www.millerlegg.com Don G. Miller, L.D. 00000001, L.A. 00000001, State LA 00000001 CITY OF COCONUT CREEK PROJECT NO. 7 COUNTY BROWARD DT-00239 6/4/2008 6/4/2008							
IRRIGATION PLAN				SHEET NO. LD-64			



SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
1	Rain Bird 1805-SAM-PRS 15 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	15	180	30	1.8	15'	1	Rain Bird PEG-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	1
2	Rain Bird 1812-SAM-PRS 15 Series MPR Turf Spray 12" pop-up with check valve, pressure regulator.	1	300	30	2.6	12'	2	Rain Bird PEG-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator.	2
3	Rain Bird 1812-SAM-PRS 15 Series MPR Turf Spray 12" pop-up with check valve, pressure regulator.	6	180	30	1.9	15'	3	Nibco P-619-100 Cast Iron Gate Valve (line size) in o	1
4	Rain Bird 1812-SAM-PRS 15 Series MPR Turf Spray 12" pop-up with check valve, pressure regulator.	2	90	30	0.8	15'	4	Carson 1418-MV-1000 1" Malleable Iron Gate Valve	767
5	Rain Bird 1805-SAM-PRS 15 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	10	360	30	0.5	1'	5	Irrigation Lateral Line PVC Class 200 3/4"	95
6	Rain Bird 1805-SAM-PRS 15 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	2	90	30	0.5	1'	6	Irrigation Lateral Line PVC Class 200 1"	248
7	Rain Bird 1805-SAM-PRS 15 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	2	45	1.0	25'		7	Irrigation Lateral Line PVC Class 200 1 1/4"	24
8	Rain Bird 1805-SAM-PRS 15 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	20	45	2.0	25'		8	Irrigation Lateral Line PVC Class 200 2"	14
9	Rain Bird 1805-SAM-PRS 15 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	20	45	2.0	25'		9	Irrigation Lateral Line PVC Class 200 2 1/2"	235
10	Rain Bird 1805-SAM-PRS 15 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	20	45	2.0	25'		10	Irrigation Lateral Line PVC Class 200 3"	732
11	Rain Bird 1805-SAM-PRS 15 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	20	45	2.0	25'		11	SR7/US441 HDPE 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 for construction.	83

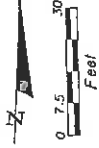
- NOTES:
1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along curbline 10'-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.



NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES

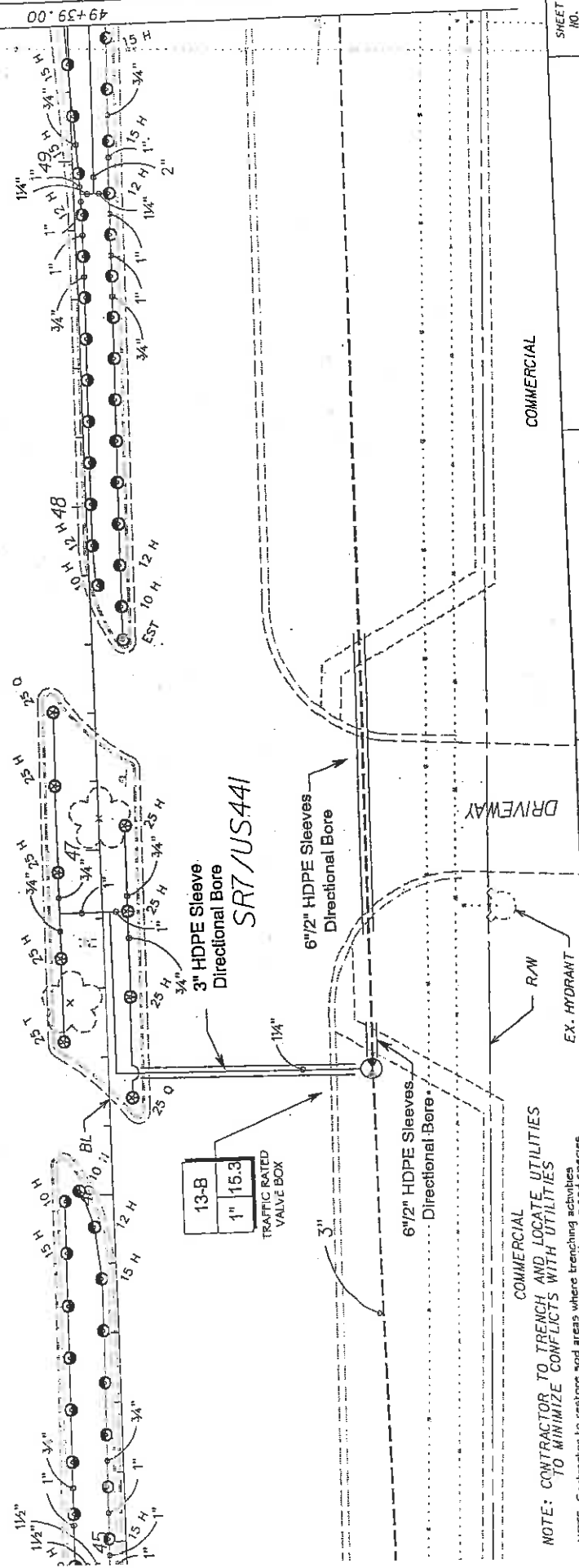
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REVISIONS DATE BY DESCRIPTION		CITY OF COCONUT CREEK ROAD NO. 7 COUNTY BROWARD PROJECT ID 07-00239		SHEET NO. LD-68
MILLER LEGG 1800 North Douglas Road, Suite 201 - Tempe, AZ 85281 944-436-7000 Fax 944-432-8661 www.millerlegg.com Dist. of Invt. 1/10/2003 L.A. of Record (Plan 2, Sheet 14-60071)		IRRIGATION PLAN 8/4/2003		8/4/2003



SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
1	Rain Bird 1808-SAM-PRS 15 Slip Series UPR Turf Spray 6" pop-up with check valve and pressure regulator.	1	EST	30	0.6	4"x15'	1	Rain Bird PEB-PRS-0 1" Electric Remote Control Valve with Pressure Regulator.	1
2	Rain Bird 1808-SAM-PRS 10 Series UPR Turf Spray 6" pop-up with check valve and pressure regulator.	4	180	30	0.0	10'	2	Irrigation Lateral Line: PVC Class 200 3/4"	619
3	Rain Bird 1808-SAM-PRS 12 Series UPR Turf Spray 6" pop-up with check valve and pressure regulator.	20	180	30	1.3	12'	3	Irrigation Lateral Line: PVC Class 200 1 1/4"	144
4	Rain Bird 1808-SAM-PRS 12 Series UPR Turf Spray 6" pop-up with check valve and pressure regulator.	19	180	30	1.9	15'	4	Irrigation Lateral Line: PVC Class 200 1 1/2"	184
5	Rain Bird 1808-SAM-PRS 15 Series UPR Turf Spray 6" pop-up with check valve and pressure regulator.	1	180	30	1.9	15'	5	Irrigation Lateral Line: PVC Class 200 2"	48
6	Rain Bird 1808-SAM-PRS 15 Series UPR Turf Spray 6" pop-up with check valve and pressure regulator.	1	180	30	1.9	15'	6	Irrigation Lateral Line: PVC Class 200 2 1/2"	3
7	Rain Bird 5004-MPR-SAM Turf Rotator, 4" pop-up, matched precipitation rotor, 11-green, 3511-baggs	2	45	1.0	25'	7	Pipe Sleeve: HDPE typical pipe with their related couplings to easily slide shell allow for changing material. Extend sleeves 18 inches beyond edges of paving for construction.	101	
8	Rain Bird 5004-MPR-SAM Turf Rotator, 4" pop-up, matched precipitation rotor, 11-green, 3511-baggs	1	45	1.4	25'	8			

- NOTES:
1. Irrigation components and pipes are schematic only.
 2. Mainline to be routed along subline 1, E-241 East back of curb.
 3. Routing outside of median is shown for clarity purposes.



NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES

NOTE: Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same sod species.

CITY OF COCONUT CREEK		MILLER LEGG PROJECT ID		SHEET NO.	
COUNTY		07-00239		LD-69	
ROAD NO.		7		8/4/2008	
CITY OF COCONUT CREEK		MILLER LEGG PROJECT ID		SHEET NO.	
COUNTY		07-00239		LD-69	
ROAD NO.		7		8/4/2008	
CITY OF COCONUT CREEK		MILLER LEGG PROJECT ID		SHEET NO.	
COUNTY		07-00239		LD-69	
ROAD NO.		7		8/4/2008	

SUBJECT SPECIFIC GENERAL NOTES:

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 current Manual on Uniform Traffic Control Devices as minimum criteria.

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

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.

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.

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

The regulatory speed shall be 55 mph.

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 shall be included in maintenance of traffic.

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 moving, relocating, covering and restoring the signs shall be included in maintenance of traffic.

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 authorized by the Engineer. All cost for the officer(s) shall be included in the maintenance of traffic.

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

1. The contractor shall maintain a minimum of one line 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.

2. 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.

3. 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.

4. 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 accommodations 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.

REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY



MILLER LEGG
1007 North County Road, Suite 200, Jacksonville, FL 32206
904-438-3000 Fax 904-438-4661 www.millerlegg.com
Lic. of Arch. E-00007011, Licenses of Engrs. E-10, E-11, E-12, E-13, E-14, E-15, E-16, E-17, E-18, E-19, E-20, E-21, E-22, E-23, E-24, E-25, E-26, E-27, E-28, E-29, E-30, E-31, E-32, E-33, E-34, E-35, E-36, E-37, E-38, E-39, E-40, E-41, E-42, E-43, E-44, E-45, E-46, E-47, E-48, E-49, E-50, E-51, E-52, E-53, E-54, E-55, E-56, E-57, E-58, E-59, E-60, E-61, E-62, E-63, E-64, E-65, E-66, E-67, E-68, E-69, E-70, E-71, E-72, E-73, E-74, E-75, E-76, E-77, E-78, E-79, E-80, E-81, E-82, E-83, E-84, E-85, E-86, E-87, E-88, E-89, E-90, E-91, E-92, E-93, E-94, E-95, E-96, E-97, E-98, E-99, E-100

CITY OF COCONUT CREEK	
ROAD NO. 7	COUNTY BROWARD
PROJECT ID 07-00239	

TRAFFIC CONTROL NOTES	
SHEET NO.	LD-80

Drop offs:

1. For drop offs, the contractor's attention is directed to: dot 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 coordination 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 660 101

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, but not less than, the current mtd. 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 accommodate 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 the ward 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 division, (954) 847-2600, to arrange a pre-construction school safety meeting.

Landscape plan specific notes:

1. SR-7 Southbound and Sawgrass Expressway Westbound Ramp Signal Operation
a. Contractor to cover signal heads or make signal head revisions where impacted as required due to maintenance of traffic per FDOT standard index 600 and foot traffic operations office.

2. INTERSECTIONS: Sawgrass Expressway Westbound Ramp; N.W. 61st Street; Regency Lakes Blvd.; Johnson Rd.; Johnson Rd.; Hillsboro Blvd.; Lovelatchee Rd.;

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.

3. INTERSECTION: Johnson Rd./Johnson Rd.
a. 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 Maintenance of traffic school / pedestrian criteria.

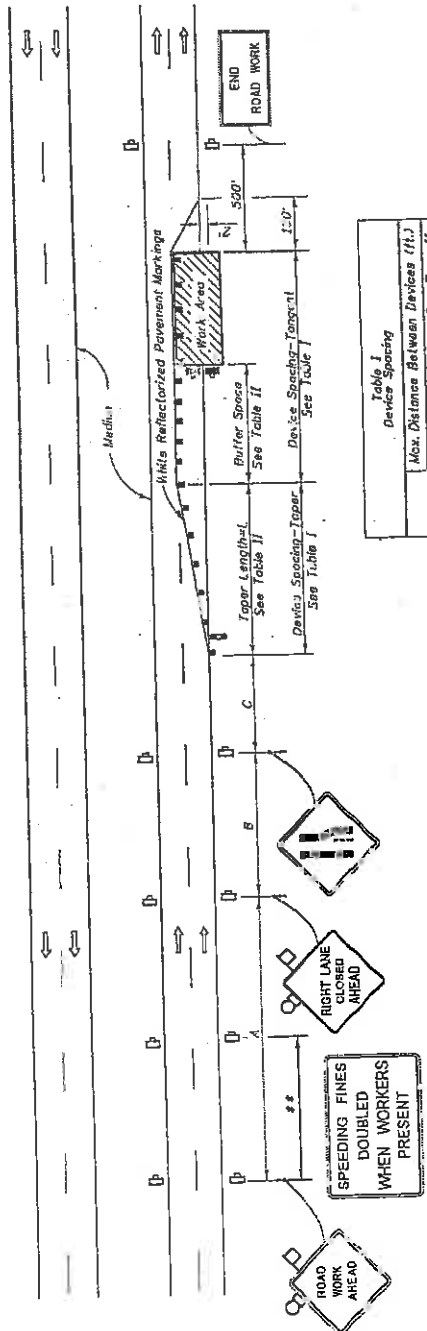


Table II Taper Length

Speed (mph)	Buffer Space (ft.)	Taper Length (ft.)	Notes
25	135	125	
30	200	100	
35	250	85	
40	305	70	
45	360	55	
50	425	40	
55	490	25	
60	570	10	
65	645	0	
70	730	0	

When Buffer Space cannot be achieved due to geometric constraints, the greatest attainable length should 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 in mph

Table I Device Spacing

Speed (mph)	Max. Distance Between Devices (ft.)
25	25
30	30
35	35
40	40
45	45
50	50
55	55
60	60
65	65
70	70

GENERAL NOTES

- Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
- On undivided highways the median signs as shown are to be omitted.
- When work is performed in the median lane on divided highways, the channelizing device plan is to be used and the end signs substituted for the right lane closed and lane end signs.
- The work area shall be confined within one median lane.
- Additional barriers, cones, or drums shall be placed along the centerline abutting the work area and across the taper and of the work area.

DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.)
40 mph or less	200
45 mph	250
50 mph	300
55 mph or greater	350

The ROAD WORK 1 MILE sign may be used as an alternate to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED 1/2 MILE sign may be used as an alternate to the RIGHT LANE CLOSED AHEAD sign.

500' beyond the ROAD WORK AHEAD sign or a way between signs whichever is less.

DURATION NOTES

- Temporary white edgeline may be omitted for work operations less than 3 days.
- Signs, arrow panel and buffer space may be omitted if all of the following conditions are met:
 - a) Work operations are 50 minutes or less.
 - b) Speed limit is 45 mph or less.
 - c) No sight obstruction to the buffer space and work area for a distance equal to the buffer space and the taper length combined.
 - d) The work area is on a high-interchange, relating to the existing or new high-interchange.
 - e) Volume and complexity of this roadway has been considered.

CONDITIONS

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

SYMBOLS

- Work Area
- Sign 1 with 18" x 12" (min.)
- Orange Flag And Type B Light
- Channelizing Device (See Index P. 800)
- Sign 1 Type II Or Type III Barricade Or Vertical Panel Or Drum (With Flashing Light)
- Work Zone Sign
- Advance Warning Arrow Panel

TRAFFIC CONTROL DETAILS

CITY OF COCONUT CREEK

COUNTY: MILER LEGG PROJECT ID: 07-00239

ROAD NO.: 7

BRONARD

MILLER LEGG

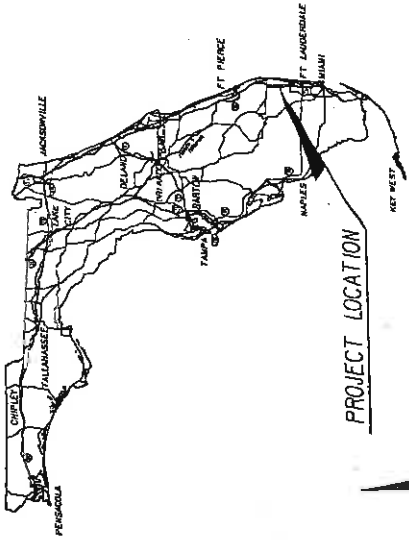
1800 North Douglas Road, Suite 200, Phoenix, AZ 85016

602-955-3000 Fax: 602-955-3001

www.millerlegg.com

Date of Issue: 08/07/11 Engineer: R. B. B. (00000000) PLS 0000

DATE	BY	DESCRIPTION	REVISIONS



PROJECT LOCATION



PLANS PREPARED BY:

MILLER LEGG
 180 North Douglas Road - Suite 201 - Pompano Beach, Florida - 33064
 954-436-7000 - Fax: 954-436-8661 - www.millerlegg.com
 Certification of Authorization: LC0000337

NOTE: THE SCALE OF THESE PLANS MAY
 HAVE CHANGED DUE TO REPRODUCTION.
 DESIGN SPEED: 50 MPH

MEDIAN = 5-11
 STA: 46+20 - 93+00
 02-25-2009

Handwritten notes:
 02-25-2009
 02-25-2009

SHEET NO.	LD-1
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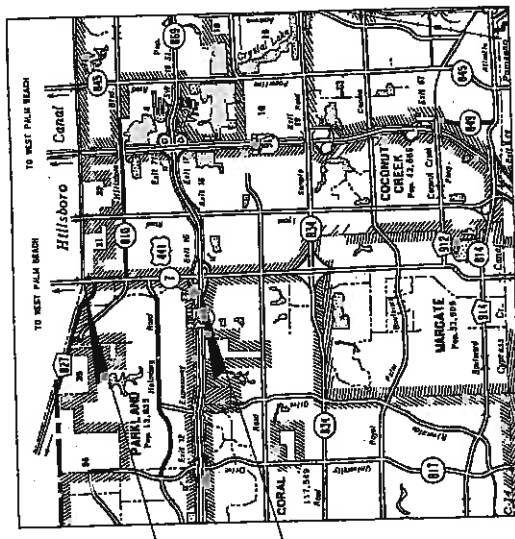
CONTRACT PLANS

BROWARD COUNTY

STATE ROAD NO. 7/US 441

NORTH OF SAWGRASS EXPRESSWAY (M.P. 22.700)
 TO BROWARD/PALM BEACH COUNTY LINE (M.P. 24.591)

LANDSCAPE BEAUTIFICATION PROJECT



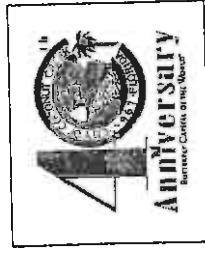
PROJECT LENGTH: 1.891 MILES

M.P. 24.591

M.P. 22.700

INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2 thru LD-3	TABULATION OF QUANTITIES/PLANT SCHEDULE
LD-4	LANDSCAPE NOTES
LD-5 thru LD-8	EXISTING CONDITION QUANT
LD-9 thru LD-29	EXISTING CONDITION PLAN
LD-30 and LD-31	HANDSCAPE NOTES AND DETAILS
LD-32 thru LD-52	LANDSCAPE/HANDSCAPE PLAN
LD-53 thru LD-54	IRRIGATION NOTES & DETAILS
LD-55	IRRIGATION PLAN
LD-56 thru LD-58	TRAFFIC CONTROL NOTES
LD-59 thru LD-79	TRAFFIC CONTROL PLAN
LD-80	TRAFFIC CONTROL NOTES
LD-81 and LD-82	TRAFFIC CONTROL DETAILS



City of Coconut Creek

4800 West Douglas Road
 954-973-6700 - Fax: 954-973-6704
 www.coconutcreek.com

Mayor: Lou Sabbo
 Vice Mayor: Becky Tonley
 Commissioner: Marilyn Getter
 Commissioner: Leonard Freund
 Commissioner: Ron Deasing, Jr.
 City Manager: John P. Kelly

GOVERNING STANDARDS AND SPECIFICATIONS:
 FLORIDA DEPARTMENT OF TRANSPORTATION,
 DESIGN STANDARDS DATED 2004, AND STANDARD
 SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION,
 DATED 2007, SECTION 500 LANDSCAPE INSTALLATION,
 AS AMENDED BY CONTRACT DOCUMENTS

SOUTHERN HALF FWP 423280-1-58-01
 NORTHERN HALF FWP 423270-1-58-01

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

TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAYSIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAX MAINTAINED SIZE	SPACING	REMARKS	NATIVE	DROUGHT TOLERANCE	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		
												LD-32						LD-33								
												PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN
SOP-F-1 SHRUBS & GROUND COVERS (SMALL)																										
1	SM/L	ESS	Bougainvillea spectabilis 'albertiana'	Bougainvillea Spectable Albert	MIN. 24"x24", 3 GAL. Bush Form	Natural Size	24" O.C.	FULL	N	VERY	EA															
2	SM/L	GAL	Chorizanthe gracilis	Thymus	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	VERY	EA															
3	SM/L	HAM	Parsonsia palmeri Compacta	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	VERY	EA															
4	SM/L	TRD	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
5	SM/L	TRD	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	VERY	EA															
6	SM/L	TRD	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	VERY	EA															
7	SM/L	TRD	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	VERY	EA															
GROUND COVERS																										
8	SM/L	JAS	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
9	SM/L	LCN	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
10	SM/L	REA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
11	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	VERY	EA															
SOP-F-2 TREES & PALMS (LARGE)																										
1	LARGE	BA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 10' N x 5' W, 4 CT.	Natural Size	As Shown	FULL	N	VERY	EA															
2	LARGE	HP	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 10' N x 5' W, 4 CT.	Natural Size	As Shown	FULL	N	VERY	EA															
3	LARGE	LJ	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 10' N x 5' W, 4 CT.	Natural Size	As Shown	FULL	N	VERY	EA															
4	LARGE	LJ	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 10' N x 5' W, 4 CT.	Natural Size	As Shown	FULL	N	VERY	EA															
5	LARGE	CV	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 10' N x 5' W, 4 CT.	Natural Size	As Shown	FULL	N	VERY	EA															
6	LARGE	CV	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 10' N x 5' W, 4 CT.	Natural Size	As Shown	FULL	N	VERY	EA															
7	LARGE	CV	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 10' N x 5' W, 4 CT.	Natural Size	As Shown	FULL	N	VERY	EA															
8	LARGE	RE	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 10' N x 5' W, 4 CT.	Natural Size	As Shown	FULL	N	MODERATE	EA															
9	LARGE	SP	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 10' N x 5' W, 4 CT.	Natural Size	As Shown	FULL	N	MODERATE	EA															
CONCRETE PAVES																										
1	SM/L	JAS	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
2	SM/L	LCN	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
3	SM/L	REA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
4	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
5	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
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12	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
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16	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
17	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
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20	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
21	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
22	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
23	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
24	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
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30	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
31	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
32	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
33	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
34	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
35	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
36	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
37	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
38	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
39	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
40	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
41	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
42	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
43	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
44	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
45	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
46	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
47	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
48	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
49	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
50	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
51	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N	MODERATE	EA															
52	SM/L	TRA	Parsonsia palmeri 'Compacta'	Dwarf Freziera	MIN. 24"x24", 1-3 GAL.	Natural Size	24" O.C.	FULL	N																	

NOTE- GALLON SIZE IS FOR REFERENCE ONLY.

10-5-50

[illegible]

(CONTINUED)

[illegible]

NOTE: GALLON SIZE IS FOR REFERENCE ONLY.

[illegible]

PROJECT GENERAL NOTES:

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

2. All base survey sketch information shown is the best available information available at the time of preparation of plans. The Contractor shall verify the City of any discrepancies in the information provided. Basic map is a sketch of the site and data is not geographically located within any survey datum. Features such as right-of-way and station, have been compiled and incorporated from as-built data obtained from the City of Broward. Geometric survey of median has been conducted to add contractor in construction of landscape features. Contractor to use back of each dimension 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 destroyed or covered shall be properly referenced by a registered land surveyor prior to beginning work at the minimum least distance of the Florida Board of Professional Land Surveyors. Contractor shall maintain the minimum least distance of the Florida Board of Professional Land Surveyors and restore upon completion of the work, all such corners and monuments and shall submit to the 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.

5. The Contractor shall submit an inventory list of the existing signs including photos to the City at the Pre-Construction Conference. Any existing signs damaged by the contractor during construction, shall be replaced by the Contractor at no additional cost to the City or FDOT.

6. Contractor is to notify the City/FDOT, who shall notify the State Permit Office at 850-400-1861 at least 7 calendar days in advance of a MOT Set-up that will impact Overweight/Overheight Vehicles.

7. Contractor shall remove and dispose of existing and surplus materials off-site or as directed by the City.

8. CLEARING AND GRUBBING:
a. TREE REMOVAL: includes cut, removal & stump grinding to a 1'0" minimum depth.

b. SHRUBS & GROUNDCOVERS: includes removal of existing shrubs and groundcovers within areas where proposed plant material is specified 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 50 mph.

ENVIRONMENTAL NOTES:

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

2. Contractor shall submit to City a Stormwater Pollution Prevention Plan (SWPPP) to City for review and submit 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 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.

5. The Contractor is responsible for keeping existing and new rights of way clean of planting soil, debris, etc. during the construction at no additional cost to the City. Contractor shall submit plan for protection of rights and for 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 before to digging, the Contractor shall call Sunshine States One Call of Florida, telephone number 1-800-432-4770, 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 replace by hand digging and expose all utilities located within 5' of all proposed trees and poles.

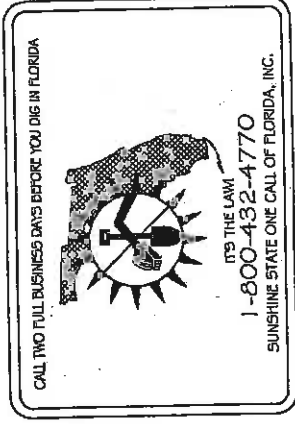
GOVERNING STANDARDS:

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

1. FDOT Standard Specifications for Road and Bridge construction 2007

2. FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System 2006 (English Unit)

3. Federal Highway Administration ASHTO A Policy On Geometric Design of Highways and Streets, 2001, Chapter 9, INTERSECTION SIGHT DISTANCE, CASE B and T, and Dependent products for diamond median openings (left turn from major roadway).



LANDSCAPE GENERAL NOTES:

1. Landscape including but not limited to, paving and installation work shall be performed by a Contractor Certified by the Florida Nurserymen, Growers and Landscape Association (FNGLA) as a Certified Landscape Contractor.

2. PLANTING SOIL: Contractor shall provide a consistent mix of 40% General Topsoil / 50% Sand / 10% Peat. The planting soil shall be amended with the loosest native soil located at a 30:50:20 ratio. A 'non-soluble' wetting agent shall be added to all trees and palms at time of planting.

3. SOIL: Provided specified species of soil as shown on plans. All existing turf areas within the median shall be removed and replaced on plans. All existing areas within wide areas shall remain unless otherwise specified. Contractor shall only remove existing turf and miscellaneous soils material from proposed planting bed areas. The Contractor shall be responsible to record any damaged areas and restore the existing grade due to installation activities during landscape restoration activities. Restoration activities with the same species of soil. Cost of replacement material shall be included within Mobilization and at the Contractor's expense.

4. MULCH: A minimum 3" layer of shredded Grade A mulch or better shall be spread over all planting beds. All mulch beds shall extend to baseline 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.

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

7. ESTABLISHMENT PERIOD OF PLANT MATERIAL: Fertilizer for deep beds, shrubs and ground covers shall be 1/3 nitrogen, 6% phosphorus and 6% potassium with minor elements composition analyses. Fertilizer for palms shall be 1/3 nitrogen, 13% phosphorus, 5% potassium, and 13% of potassium composition analyses. 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 criteria.

8. 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 its source shall be included as part of the bid price and shall be included in the contract documents.

9. WARRANTY: Install, establish and maintain landscaping as indicated in the contract documents. Take responsibility for the proper maintenance, removal 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 500.

10. REPLACEMENT MATERIAL: shall be subject to all the requirements of the FDOT Standard Specifications for Road and Bridge Construction Section 500.

11. MAINTENANCE: Begin maintenance of all plants immediately after each planting as indicated in the contract documents and in accordance with Standard Specifications Section 500.

A. Keep all plants watered, fertilized, mulched, pruned and staked and gayed as necessary to ensure 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 weeds 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 within the unit price breakdown submitted. The unit price breakdown shall be provided by the Contractor at the Pre-Construction meeting. The plant material will be accepted showing evidence of color, clean marks, equipment signs, and the health of the plant. If the plant material is damaged, broken or otherwise damaged.

11. 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 within the unit price breakdown submitted. The unit price breakdown shall be provided by the Contractor at the Pre-Construction meeting. The plant material will be accepted showing evidence of color, clean marks, equipment signs, and the health of the plant. If the plant material is damaged, broken or otherwise damaged.

12. 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 within the unit price breakdown submitted. The unit price breakdown shall be provided by the Contractor at the Pre-Construction meeting. The plant material will be accepted showing evidence of color, clean marks, equipment signs, and the health of the plant. If the plant material is damaged, broken or otherwise damaged.

13. 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 within the unit price breakdown submitted. The unit price breakdown shall be provided by the Contractor at the Pre-Construction meeting. The plant material will be accepted showing evidence of color, clean marks, equipment signs, and the health of the plant. If the plant material is damaged, broken or otherwise damaged.

14. 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 within the unit price breakdown submitted. The unit price breakdown shall be provided by the Contractor at the Pre-Construction meeting. The plant material will be accepted showing evidence of color, clean marks, equipment signs, and the health of the plant. If the plant material is damaged, broken or otherwise damaged.

15. 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 within the unit price breakdown submitted. The unit price breakdown shall be provided by the Contractor at the Pre-Construction meeting. The plant material will be accepted showing evidence of color, clean marks, equipment signs, and the health of the plant. If the plant material is damaged, broken or otherwise damaged.

CITY OF COCONUT CREEK

PROJECT NO. 07-00239

MILLER LEGG

1800 N. W. 1st St., Suite 200, Fort Lauderdale, FL 33304
Tel: 954-584-8800 Fax: 954-584-8801
E-mail: info@mllegg.com
Date of bid: 11/09/2007, Last of Bids: 11/15/2007

REVISIONS

DATE	BY	DESCRIPTION

LANDSCAPE NOTES

DR-15-09
SHEET NO. LD-4

DATE: 07/24/08

BY: [Signature]

DATE OF VERIFICATION: 10/11/07

TREE NUMBER	COMMON NAME	BOTANICAL NAME	NATIVE?	DBH (in) for trees / Clear Trunk Height (ft.) for palms	SPREAD (ft.)	CANOPY AREA (sq. ft.)	TO BE REMOVED	TO REMAIN	VARIANCE	Notes/Condition
1	live oak	Quercus virginiana	Y	5	6	28.3		X		
3	live oak	Quercus virginiana	Y	4	8	50.2		X		
5	live oak	Quercus virginiana	Y	6	16	264.3		X		
6	cabbage palm	Sabal palmetto	Y	20	-	-		X		
7	cabbage palm	Sabal palmetto	Y	16	-	-		X		
8	cabbage palm	Sabal palmetto	Y	15	-	-		X		
9	cabbage palm	Sabal palmetto	Y	12	-	-		X		
10	cabbage palm	Sabal palmetto	Y	12	-	-		X		
11	cabbage palm	Sabal palmetto	Y	8	-	-		X		
12	cabbage palm	Sabal palmetto	Y	10	-	-		X		
13	cabbage palm	Sabal palmetto	Y	15	-	-		X		
14	cabbage palm	Sabal palmetto	Y	10	-	-		X		
15	cabbage palm	Sabal palmetto	Y	8	-	-		X		
16	cabbage palm	Sabal palmetto	Y	18	-	-		X		
17	live oak	Quercus virginiana	Y	3	6	28.3		X		
20	live oak	Quercus virginiana	Y	4	6	28.3		X		within a taper or sight line
21	live oak	Quercus virginiana	Y	4	12	113.0		X		within a taper or sight line
22	live oak	Quercus virginiana	Y	6	10	78.5		X		within a taper or sight line
23	live oak	Quercus virginiana	Y	8	15	178.6		X		within a taper or sight line
24	live oak	Quercus virginiana	Y	5	8	50.2		X		within a taper or sight line
25	live oak	Quercus virginiana	Y	7	18	254.3		X		within a taper or sight line
26	live oak	Quercus virginiana	Y	8	15	178.6		X		within a taper or sight line
27	live oak	Quercus virginiana	Y	6	15	178.6		X		within a taper or sight line
29	live oak	Quercus virginiana	Y	8	18	254.3		X		
34	cabbage palm	Sabal palmetto	Y	12	-	-		X		
35	cabbage palm	Sabal palmetto	Y	10	-	-		X		
36	cabbage palm	Sabal palmetto	Y	10	-	-		X		within a taper or sight line
37	cabbage palm	Sabal palmetto	Y	12	-	-		X		
38	cabbage palm	Sabal palmetto	Y	12	-	-		X		within a taper or sight line
39	cabbage palm	Sabal palmetto	Y	10	-	-		X		
40	cabbage palm	Sabal palmetto	Y	10	-	-		X		
41	cabbage palm	Sabal palmetto	Y	10	-	-		X		
42	cabbage palm	Sabal palmetto	Y	10	-	-		X		
43	cabbage palm	Sabal palmetto	Y	12	-	-		X		
44	cabbage palm	Sabal palmetto	Y	10	-	-		X		
45	live oak	Quercus virginiana	Y	6	16	264.3		X		

Jim P. June
02-25-07SHEET NO.
LD-5

EXISTING CONDITION CHART

CITY OF COCONUT CREEK

MILLER LEGG

REVISIONS

DATE

DESCRIPTION

DATE

DESCRIPTION

ROAD NO. 7

COUNTY BROWARD

PROJECT ID 07-00239

DATE

DESCRIPTION

DATE

DESCRIPTION

10/25/2008

verca

1800 N. Highway 100, Suite 200, Fort Lauderdale, FL 33304
954-582-7000 Fax: 954-582-8884 www.millerlegg.com
City of Jacksonville, FL 32201

10/25/2008

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE OF VERIFICATION: 10/11/07

TREE NUMBER	COMMON NAME	BOTANICAL NAME	NATIVE?	DBH (in) for trees / Clear Trunk Height (ft.) for palms	SPREAD (ft.)	CANOPY AREA (sq. ft.)	TO BE REMOVED	TO REMAIN	Notes/Condition
49	live oak	Quercus virginiana	Y	6	15	176.8		X	within a taper or sight line
49	live oak	Quercus virginiana	Y	5	15	176.8		X	within a taper or sight line
51	live oak	Quercus virginiana	Y	7	12	113.0		X	within a taper or sight line
52	live oak	Quercus virginiana	Y	6	15	176.8		X	within a taper or sight line
53	live oak	Quercus virginiana	Y	8	28	815.4		X	within a taper or sight line
54	live oak	Quercus virginiana	Y	8	15	176.8		X	within a taper or sight line
55	live oak	Quercus virginiana	Y	6	12	113.0		X	within a taper or sight line
56	live oak	Quercus virginiana	Y	6	15	176.8		X	within a taper or sight line
57	live oak	Quercus virginiana	Y	6	18	254.3		X	within a taper or sight line
58	live oak	Quercus virginiana	Y	8	20	314.0		X	within a taper or sight line
59	live oak	Quercus virginiana	Y	6	15	176.8		X	within a taper or sight line
60	live oak	Quercus virginiana	Y	8	15	176.8		X	within a taper or sight line
61	live oak	Quercus virginiana	Y	8	20	314.0		X	within a taper or sight line
62	live oak	Quercus virginiana	Y	8	12	113.0		X	within a taper or sight line
63	live oak	Quercus virginiana	Y	10	15	176.8		X	within a taper or sight line
64	live oak	Quercus virginiana	Y	7	15	176.8		X	within a taper or sight line
65	live oak	Quercus virginiana	Y	8	15	176.8		X	within a taper or sight line
66	live oak	Quercus virginiana	Y	8	10	78.5		X	within a taper or sight line
67	live oak	Quercus virginiana	Y	8	20	314.0		X	within a taper or sight line
69	cabbage palm	Sabal palmetto	Y	12	-	-		X	within a taper or sight line
70	cabbage palm	Sabal palmetto	Y	12	-	-		X	within a taper or sight line
71	cabbage palm	Sabal palmetto	Y	20	-	-		X	within a taper or sight line
72	cabbage palm	Sabal palmetto	Y	20	-	-		X	within a taper or sight line
73	cabbage palm	Sabal palmetto	Y	20	-	-		X	within a taper or sight line
74	cabbage palm	Sabal palmetto	Y	15	-	-		X	within a taper or sight line
75	cabbage palm	Sabal palmetto	Y	20	-	-		X	within a taper or sight line
76	cabbage palm	Sabal palmetto	Y	15	-	-		X	within a taper or sight line
77	cabbage palm	Sabal palmetto	Y	20	-	-		X	within a taper or sight line
78	cabbage palm	Sabal palmetto	Y	20	-	-		X	within a taper or sight line
79	cabbage palm	Sabal palmetto	Y	20	-	-		X	within a taper or sight line
80	cabbage palm	Sabal palmetto	Y	12	-	-		X	within a taper or sight line
81	cabbage palm	Sabal palmetto	Y	12	-	-		X	within a taper or sight line
82	cabbage palm	Sabal palmetto	Y	20	-	-		X	within a taper or sight line
83	cabbage palm	Sabal palmetto	Y	12	-	-		X	within a taper or sight line
84	cabbage palm	Sabal palmetto	Y	12	-	-		X	within a taper or sight line
85	cabbage palm	Sabal palmetto	Y	30	-	-		X	within a taper or sight line

View 1-5-0-0

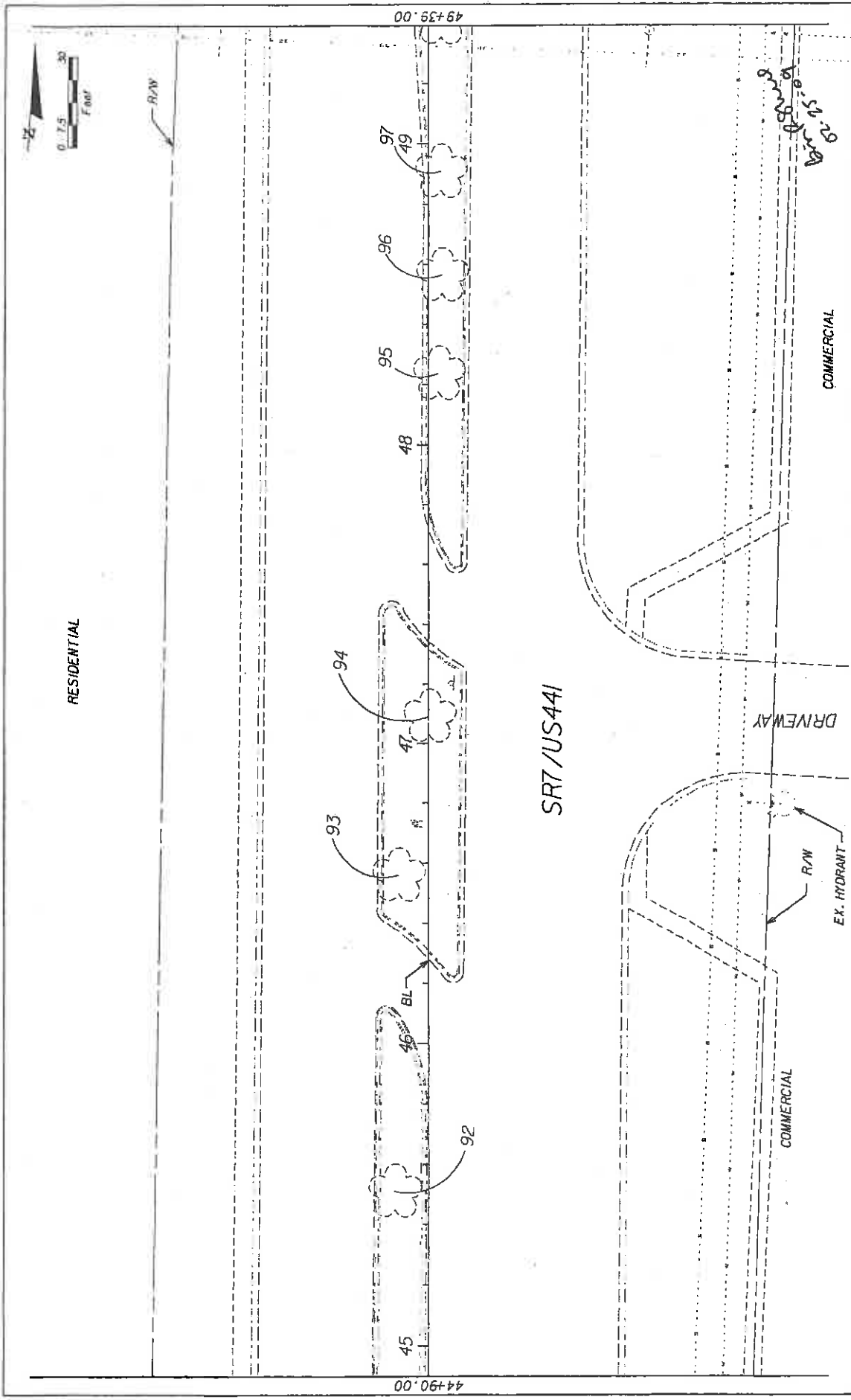
DATE		REVISIONS		CITY OF COCONUT CREEK		SHEET NO.	
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	MILLER LEGG PROJECT ID	LD-6
				7	BROWARD	07-00239	
				MILLER LEGG		EXISTING CONDITION CHART	
				1800 North Highway Road - Suite 200, Fort Lauderdale, Florida 33304 954-485-1100 Fax 954-485-8664 www.millerlegg.com Div. of Land Development, L.A. of Forest, Palm & Stone 1.4.560270		4/25/2008 0.33x0.40 14	

DATE OF VERIFICATION: 10/11/07

TREE NUMBER	COMMON NAME	BOTANICAL NAME	NATIVE?	DBH (in) for trees / Clear Trunk Height (ft) for palms	SPREAD (ft.)	CANOPY AREA (sq. ft.)	TO BE REMOVED	TO REMAIN	Notes/Condition
120	live oak	<i>Quercus virginiana</i>	Y	8	18	254.3		X	within a taper or sight line
121	live oak	<i>Quercus virginiana</i>	Y	8	20	314.0		X	
124	live oak	<i>Quercus virginiana</i>	Y	6	15	176.8		X	within a taper or sight line
125	live oak	<i>Quercus virginiana</i>	Y	6	12	113.0		X	within a taper or sight line
127	live oak	<i>Quercus virginiana</i>	Y	6	12	113.0		X	within a taper or sight line
128	live oak	<i>Quercus virginiana</i>	Y	6	12	113.0		X	within a taper or sight line

02-25-09
B. J. Smith

DATE OF VERIFICATION		REVISIONS		DESCRIPTION		CITY OF COCONUT CREEK		EXISTING CONDITION CHART		SHEET NO.
						COUNTY		MILLER LEGG PROJECT ID		LD-8
						BROWARD		07-00239		
						7				
						MILLER LEGG				
						1000 West Ave., Suite 200, Fort Lauderdale, FL 33304				
						954-465-0001 Fax: 954-465-0004 www.millerlegg.com				
						Cora of South: 1-800-333-1111, L.A. of South: 800-8-8-8888				



DATE BY		REVISIONS DESCRIPTION DATE BY		MILLER LEGG 1800 Peachtree Road, Suite 200, Peachtree Park, GA 30090 Phone: (404) 433-1100 Fax: (404) 433-1101 E-mail: info@mllegg.com		CITY OF COCONUT CREEK ROAD NO. 7 COUNTY BROWARD MILLER LEGG PROJECT ID 07-00239		EXISTING CONDITION PLAN SHEET NO. LD-19	
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6/19/2008 4:19:19 PM N:\Projects\0007\07-00239-5-Tier04_Landowner_Plan\0700239-Tier04-Plan.dwg



RESIDENTIAL

R/W

R/W

99

50

51

101

BL

102

103

52

104

53

53+88.00

49+39.00

98

100

SR7/US441

2012-02-29
J. Miller

R/W

VACANT LOT

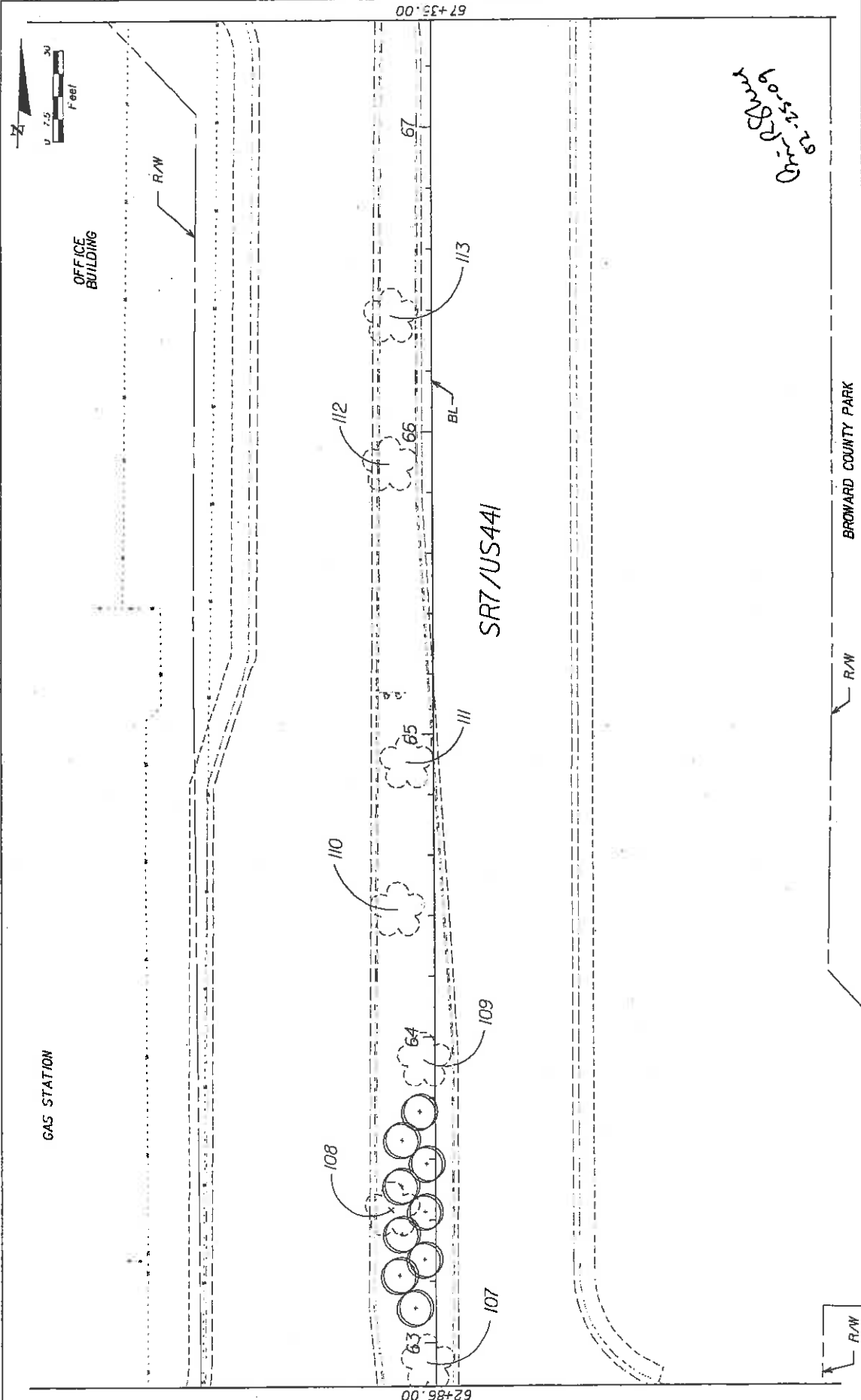
DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG
1820 South Orange Road, Suite 200, Jacksonville, Florida 32204
904.455.3000 Fax 904.455.2554 www.mlg.com
City of Jacksonville, L.A. of Brown, Shook & Stone, L.L.C. 446870

CITY OF COCONUT CREEK
PROJECT NO. MILLER LEGG PROJECT ID
7 BROWARD 07-00239

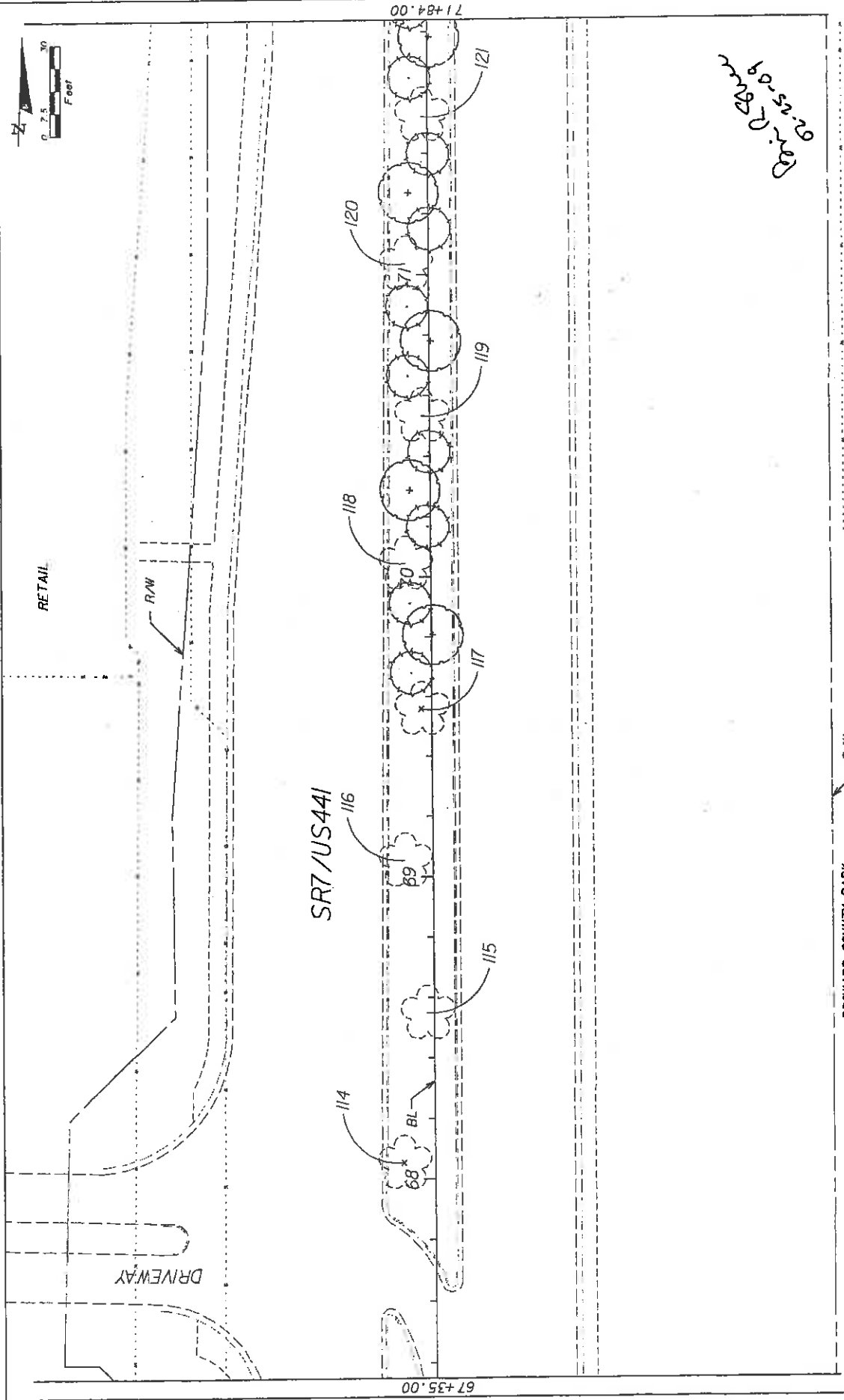
EXISTING CONDITION PLAN
SHEET NO. LD-20

12/25/2011 10:00 AM 12/25/2011 10:00 AM 12/25/2011 10:00 AM 12/25/2011 10:00 AM



DATE		BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION
MILLER LEGG 1801 West Dwyer Ave. Suite 200, Pompano Beach, FL 33064 Phone: (954) 781-1111 Fax: (954) 781-1112 Email: info@mllegg.com Website: www.mllegg.com Date of Issue: 10/08/2017 1:45 PM Scale: 1"=40' (Sheet 1 of 2)				CITY OF COCONUT CREEK ROAD NO. 7 COUNTY BROWARD MILLER LEGG PROJECT ID 07-00239		EXISTING CONDITION PLAN SHEET NO. LD-23	

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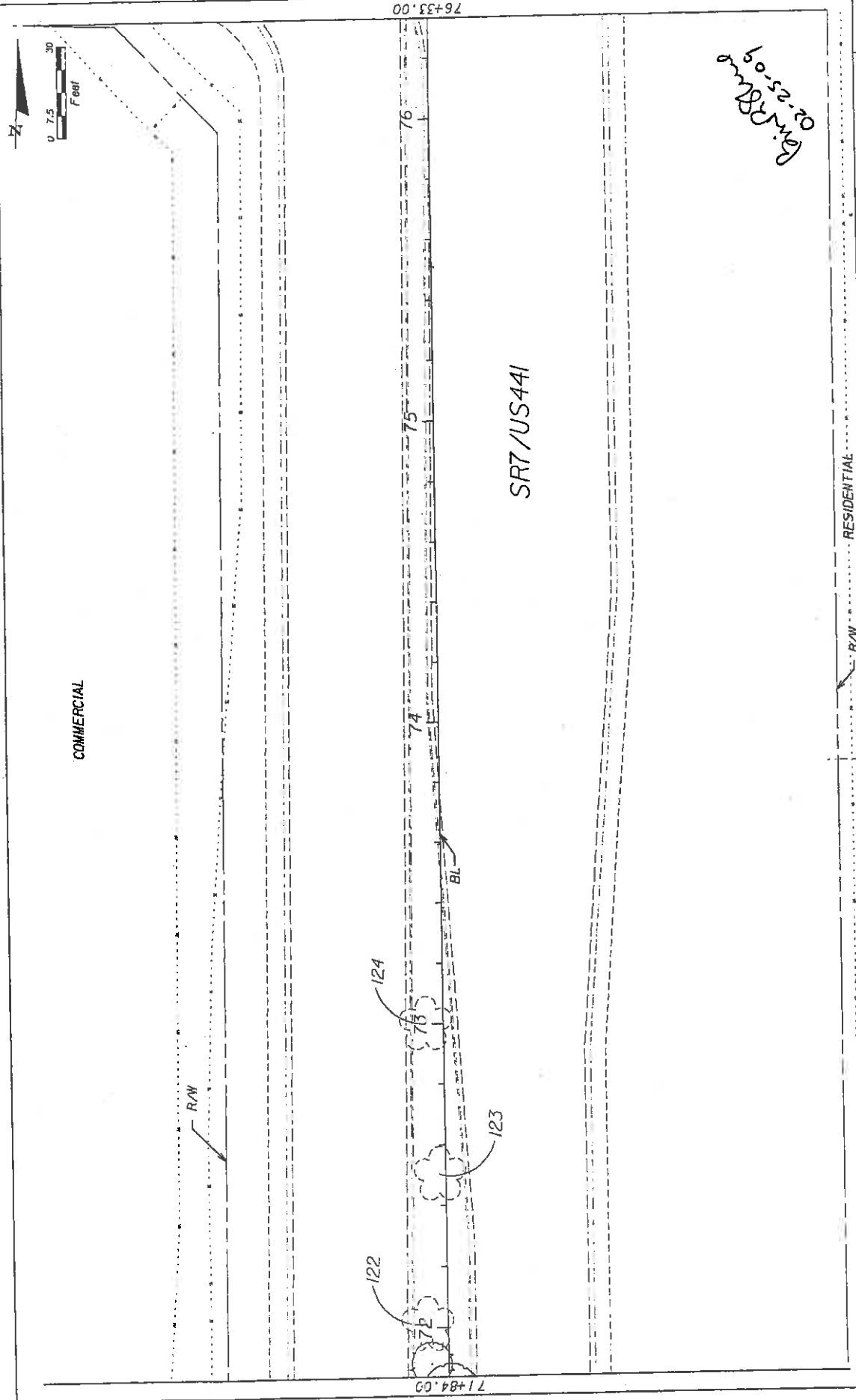
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miller

REVISIONS			CITY OF COCONUT CREEK		
DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	MILLER LEGG PROJECT NO.
			7	BROWARD	07-00239

MILLER LEGG
 1800 North Dixie Ave., Suite 200, Fort Lauderdale, Florida 33304
 954-461-1000 Fax 954-461-1001
 Date of Issue: 11/08/07 File # 07-00239-1

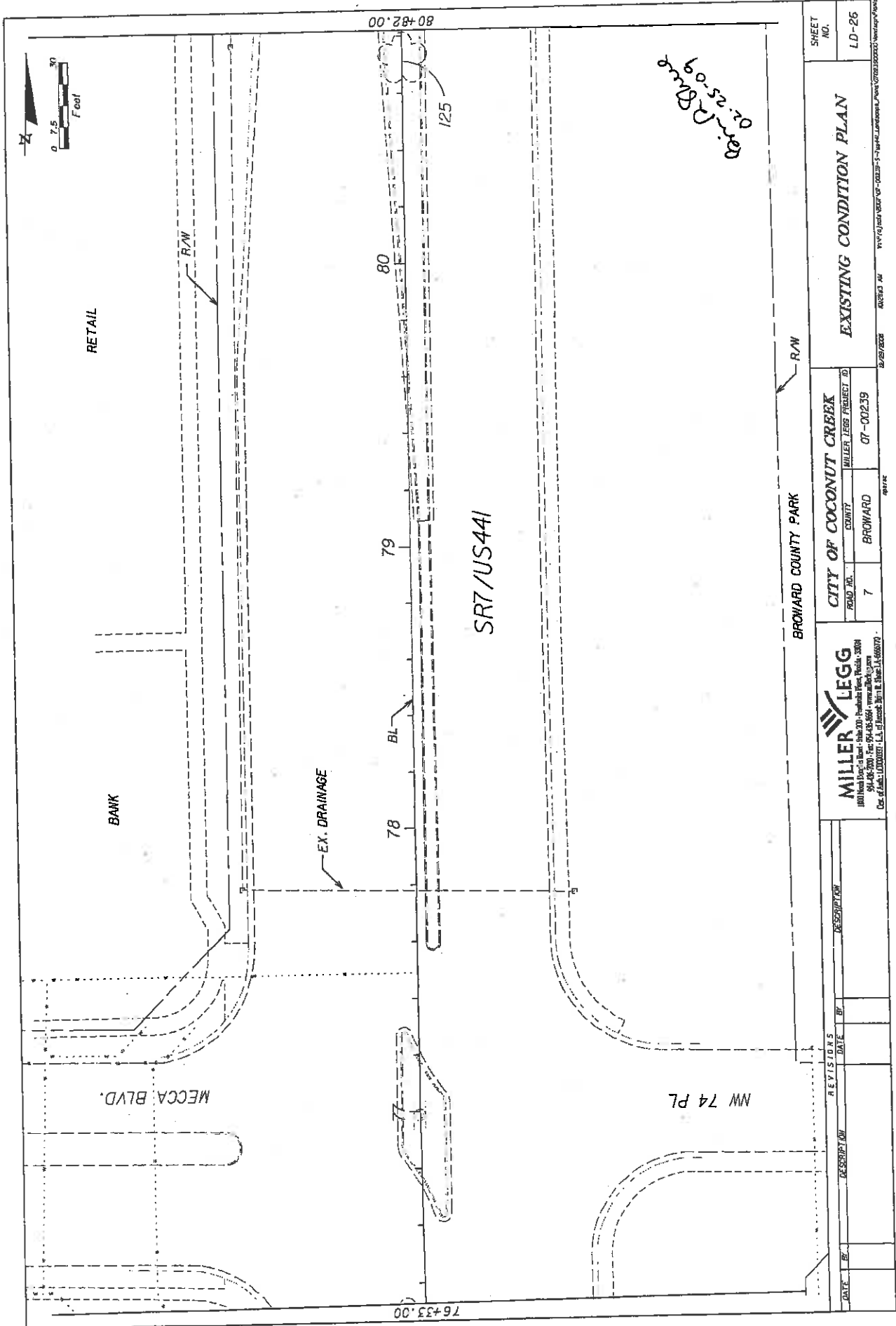
EXISTING CONDITION PLAN

SHEET NO.
1.D-24

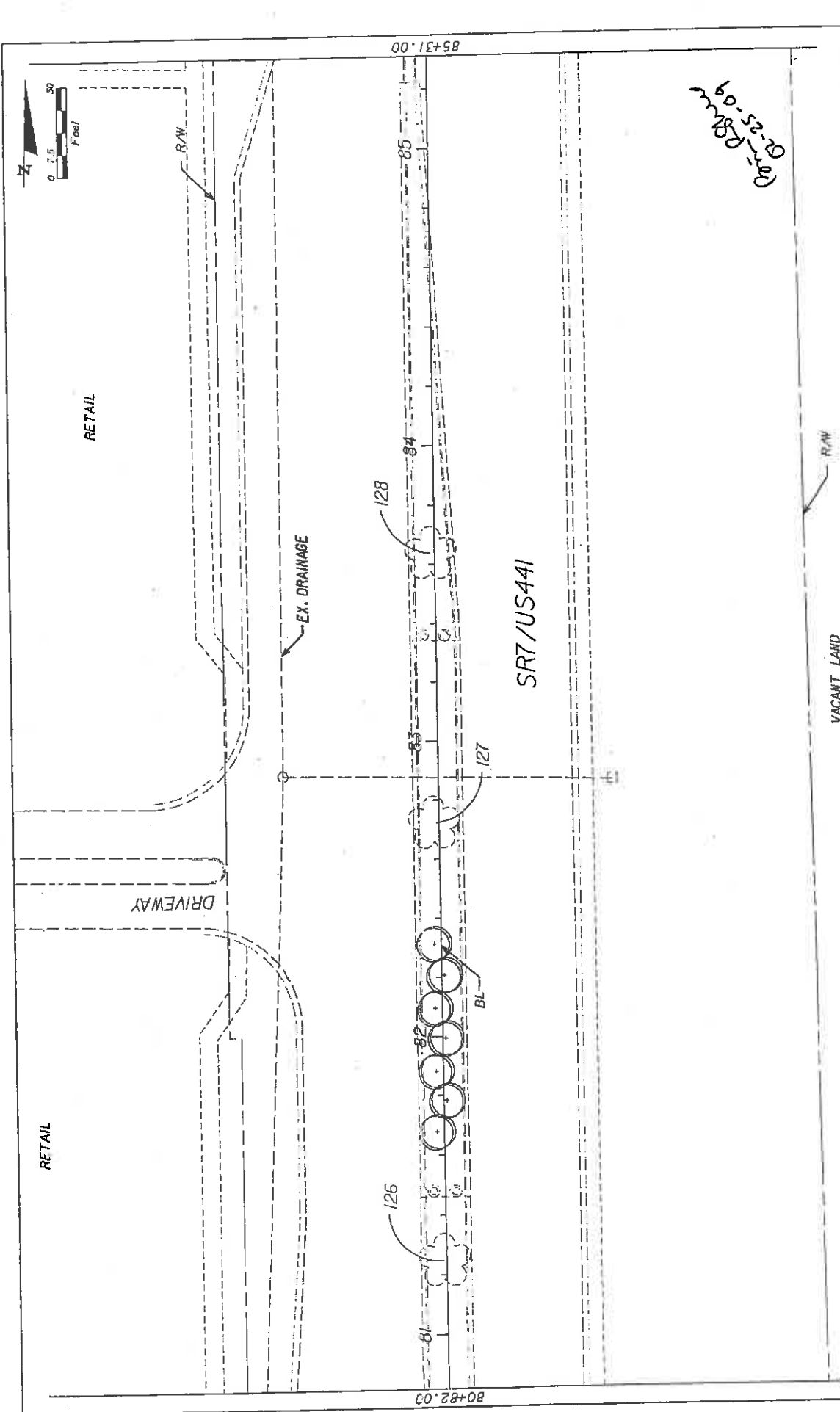


SHEET NO.		LD-25	
EXISTING CONDITION PLAN			
CITY OF COCONUT CREEK		MILLER LEGG PROJECT ID	
ROAD NO.	7	COUNTY	BROWARD
MILLER LEGG		07-00239	
1000 South Douglas Road - Suite 200 - Fort Lauderdale, Florida 33304 954-435-9100 - Fax: 954-435-9094 - www.millerlegg.com Date of Issue: 10/08/09 - L.A. of Broward County, Florida			
REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY

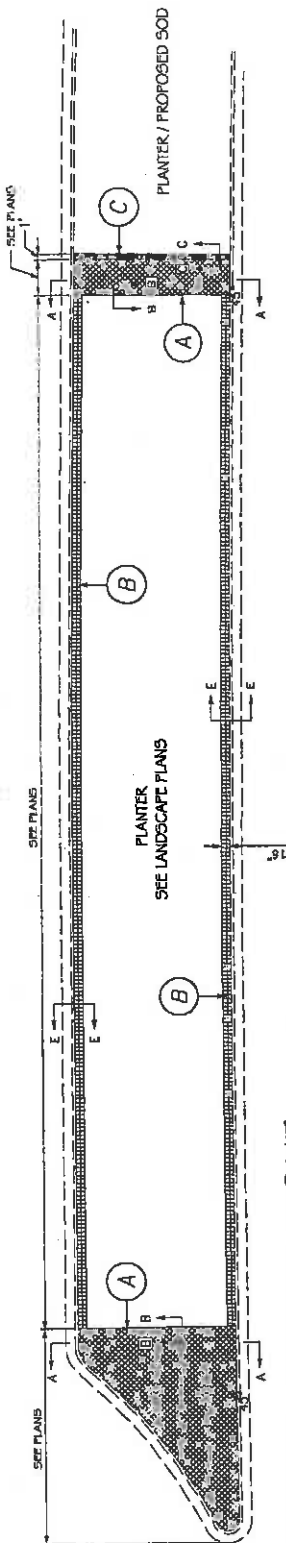
02-25-09



DATE		BY	DATE	BY	DESCRIPTION
DATE		BY	DATE	BY	DESCRIPTION
MILLER LEGG INCORPORATED IN THE STATE OF FLORIDA 10000 NW 10th Avenue, Suite 100, Fort Lauderdale, FL 33304 Tel: 954.561.1000 Fax: 954.561.1001 E-mail: info@mllegg.com CITY OF COCONUT CREEK PROJECT NO. 07-00239					
ROAD NO.		7	COUNTY		BROWARD
PROJECT NO.		07-00239	EXISTING CONDITION PLAN		
SHEET NO.		LD-26	2/25/2009 02/25/09 2/25/09		

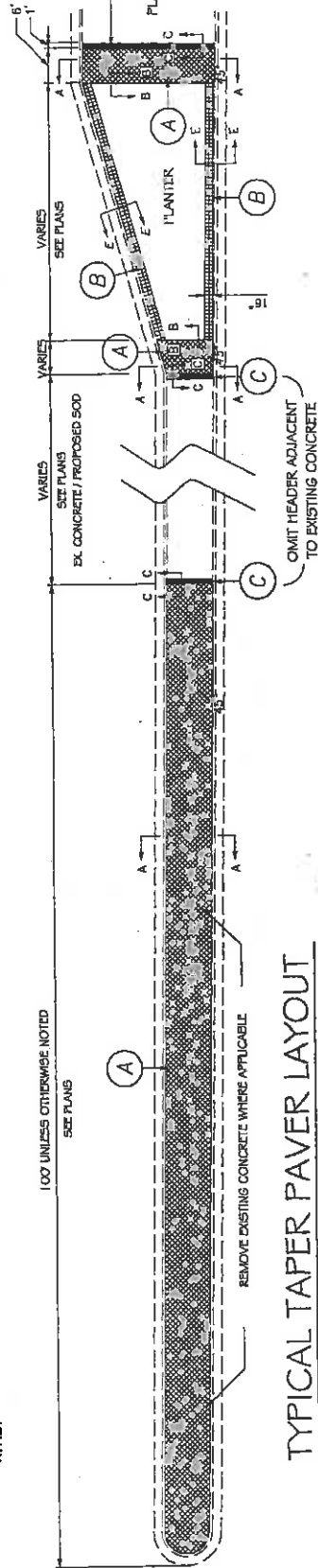


REVISIONS				CITY OF COCONUT CREEK				EXISTING CONDITION PLAN		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DATE	BY	NO.
								07-00239		LD-27
				MILLER / LEGG						
				1000 West Douglas Road, Suite 200, Chandler, AZ 85224						
				PH: 480-200-1100, FAX: 480-958-8884, www.millerlegg.com						
				CITY OF COCONUT CREEK, AZ						
				PROJECT NO. 07-00239						
				ROAD NO. 7						
				CONTRACT NO. 07-00239						
				DRAWN BY BROWARD						
				DATE 02/28/2008						
				PROJECT NO. 07-00239						
				DRAWN BY BROWARD						
				DATE 02/28/2008						



TYPICAL PAVER LAYOUT

N.T.S.



TYPICAL TAPER PAVER LAYOUT

N.T.S.

PAVING LEGEND

- (A)** SPECIALTY PAVING FIELD TO BE 8" X 8" CITY SQUARE CONCRETE PAVERS BY HANSON PAVERS (OR EQUIVALENT) ON 1" OF SAND SETTING BED ON COMPACTED SUBGRADE. COLOR TO BE P-16 CITY SQUARE PINK NATURAL GRAY COLOR MIX COMBINATION. PAVERS TO BE LAID IN A 45 DEGREE ANGLE TO THE NON-ANGLED ADJACENT CURB.
- (B)** 1'6" WIDE SPECIALTY PAVING BANDING TO BE DOUBLE ROW OF 8" X 8" CITY SQUARE CONCRETE PAVERS BY HANSON PAVERS (OR APPROVED EQUIV) ON 1" OF SAND SETTING BED OVER COMPACTED SUBGRADE. COLOR TO BE P-16 CITY SQUARE PINK NATURAL GRAY COLOR MIX COMBINATION. PAVING BANDING TO BE LAID PARALLEL TO THE ADJACENT CURB.
- (C)** 12" WIDE BROOM FINISH CONCRETE HEADER.

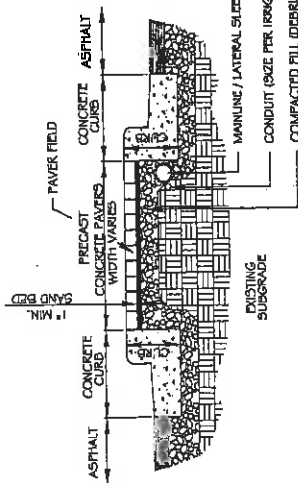
SPECIALTY PAVING GENERAL NOTES

1. SPECIALTY PAVERS AVAILABLE THROUGH HANSON PAVERS (954) 972-7400 OR (800) 273-7084
2. HIDDEN CONCRETE BACKSTILL SHALL BE REQUIRED BETWEEN 1/8" WIDE PAVING BANDING AND THE ADJACENT PLANTER.
3. CONTRACTOR TO PRESERVE CLEAN ALL EXISTING CONCRETE SURFACES AFTER COMPLETION OF PAVING AND FINISH MATERIAL INSTALLATION. CONTRACTOR TO PROVIDE TWO (2) COATS OF SEALANT ON ALL CONCRETE PAVERS. CONTRACTOR TO SUBMIT SAMPLE OF SEALANT FOR APPROVAL BY CITY BEFORE INSTALLATION.
4. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIR AND/OR REPLACEMENT OF ALL EXISTING CURBING AND/OR CONCRETE SURFACES DAMAGED DURING PAVING AND/OR PLANT MATERIAL INSTALLATION.
5. CONTRACTOR TO SUBMIT SAMPLES OF PAVERS FOR REVIEW.
6. CONTRACTOR SHALL CONSTRUCT A SAMPLE LAYOUT AREA TO BE REVIEWED BY CITY / AND OR CITY REPRESENTATIVE.
7. CITY / AND OR CITY REPRESENTATIVE SHALL REVIEW AND HAVE THE RIGHT TO ADJUST PAVERS FOR CUTS AND LAYOUT.

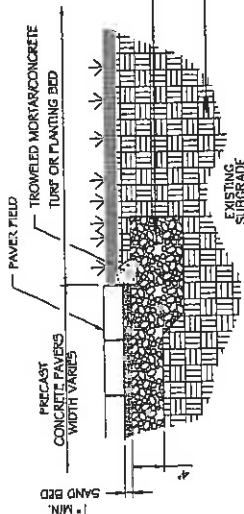
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REVISIONS				CITY OF COCONUT CREEK				HARDSCAPE NOTES AND DETAIL		SHEET NO.	
DATE	BY	DESCRIPTION	DATE	PROJECT ID	COUNTY	CITY	PROJECT ID	LD-30			
				07-00239	BROWARD		07-00239				

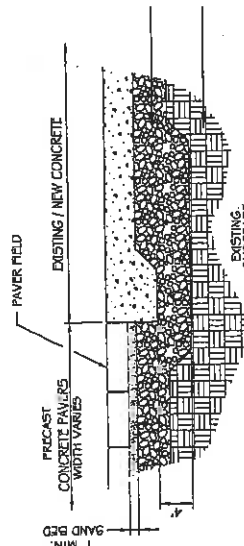
MILLER LEGG
 1800 N. 15th St., Suite 200, Fort Lauderdale, FL 33304
 954-585-1000 Fax: 954-585-1001 www.millerlegg.com
 Cdr. E. J. Miller, L.A. 12/07/07, L.A. 12/07/07, L.A. 12/07/07



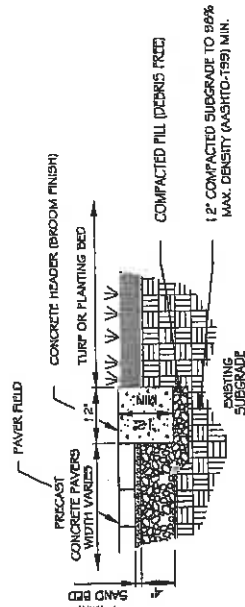
PAVER INSTALLATION DETAIL
SECTION A-A
N.T.S.



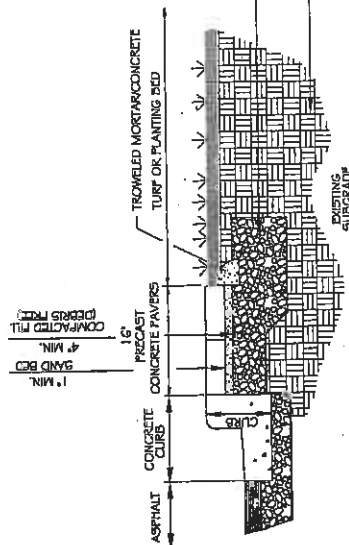
PAVER TRANSITION TO TURF OR PLANTING BED
SECTION B-B
N.T.S.



PAVER TRANSITION TO CONCRETE
SECTION D-D
N.T.S.



CONCRETE BANDING DETAIL
SECTION C-C
N.T.S.



PAVER BANDING DETAIL
SECTION E-E
N.T.S.

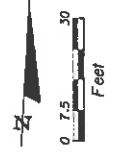
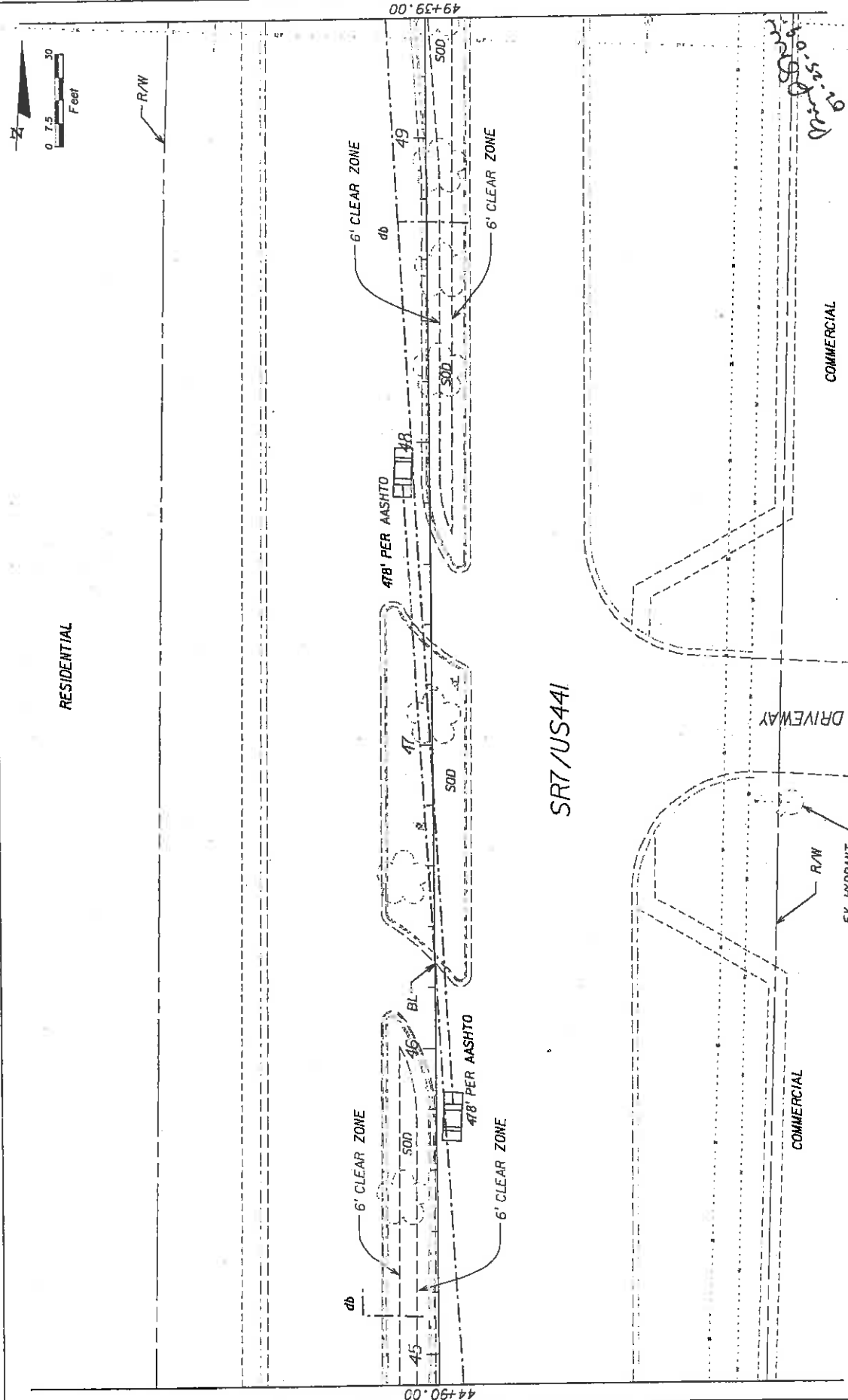
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DATE	BY	REVISIONS	DESCRIPTION	DATE	BY	DESCRIPTION

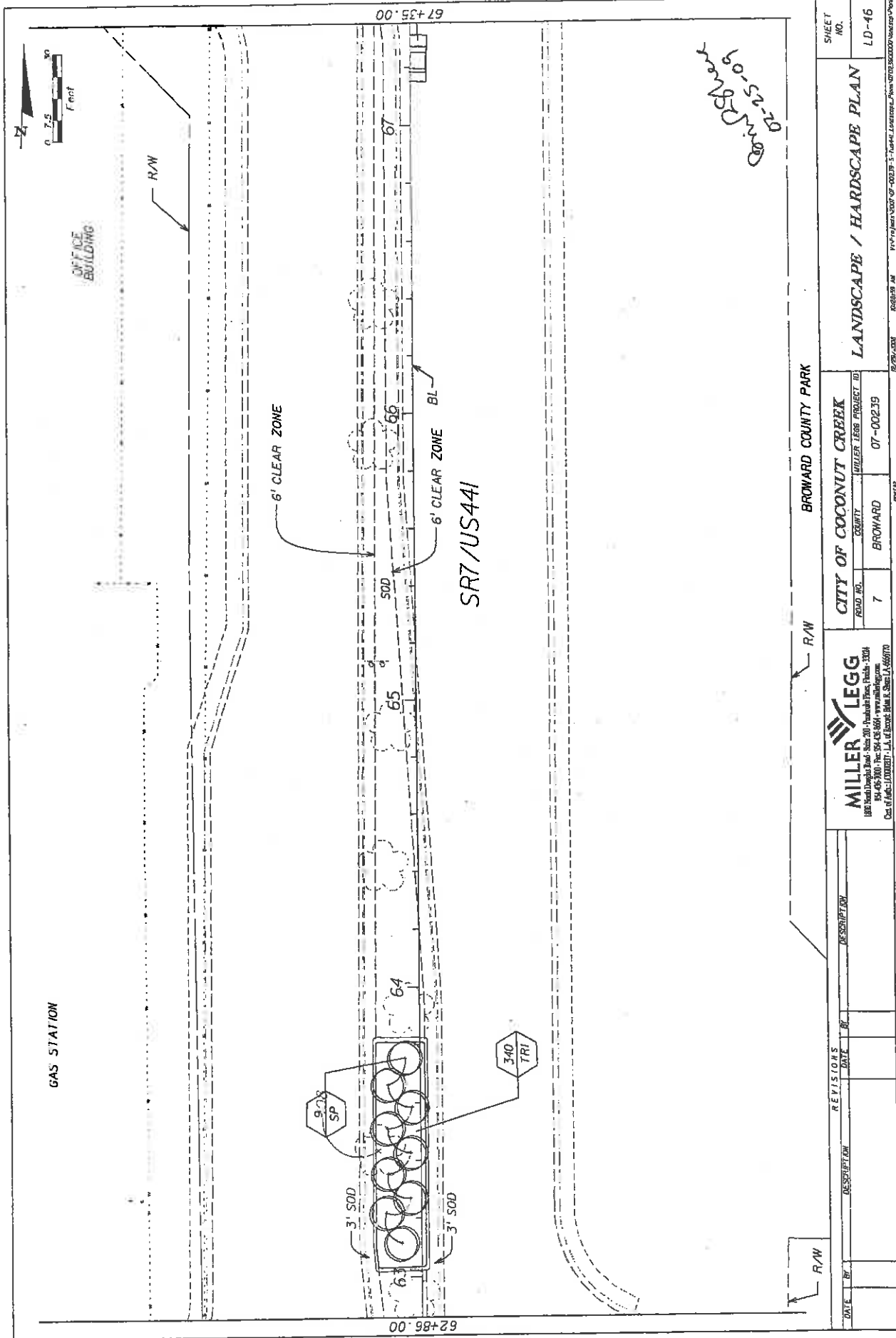
MILLER / LEGG
103 North Douglas Road, Suite 200, Jacksonville, Florida 32204
904.436.1000 Fax: 904.436.8881 www.millerlegg.com
City of Jacksonville, Florida, License No. 14-0000077

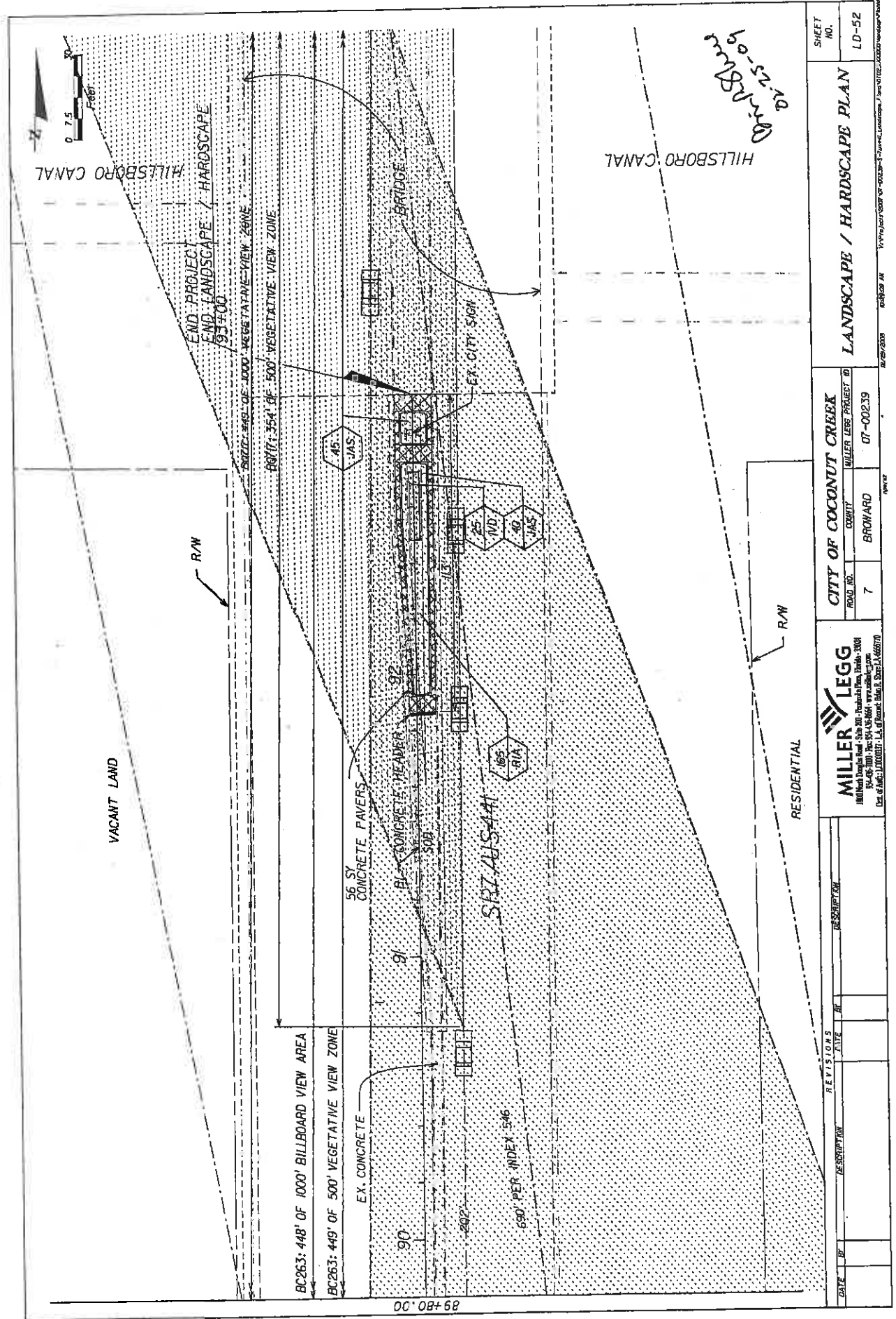
CITY OF COCONUT CREEK	PROJECT NO.
ROAD NO. 7	07-00239
COUNTY BROWARD	

HARDSCAPE NOTES AND DETAILS	SHEET NO.
	LD-31



REVISIONS DATE BY DESCRIPTION		CITY OF COCONUT CREEK ROAD NO. 7 COUNTY BROWARD PROJECT ID 07-00239		SHEET NO. LD-42
MILLER LEGG 18000 N. Douglas Road, Suite 200, Phoenix, AZ 85024 Phone: (602) 998-8800 Fax: (602) 998-8801 E-mail: info@mllegg.com		LANDSCAPE / HARDSCAPE PLAN		8/15/2008 10:58:57 AM \\p:\projects\00239\07-00239-4-landscape\landscape\p00239.dwg





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 ensure 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 leads 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's 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.s are new Hoover Pumping Stations (Pump A Model HICF-10FD-230/3-A-E-16,M,W and Pump B Model HICF-10FD-230/3-A-E-12,M,W) utilizing proposed wells. Each P.O.C. must be capable of delivering a minimum of 80 GPM at 17.5 TDH. 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" 2x4 away from either the back of curb, front of walk, back of walk, or other landscape 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 landscapes, such as roads, pavers, and walks, the pipes must be sleeved using High Density Polyethylene (HDPE) under existing roadways and sidewalks where directional bore is utilized and 5ch 40 PVC elbow where 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 Harco ductile iron fittings (sized per plans).

Contractor to ensure all mainline piping is properly restrained using mechanical joint fittings, restraining collars, threaded rods, thrust blocks, 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 for required electrical components as set forth in the irrigation plans.

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 controllers shall be 120 volts. Power for Pumps A & B 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 SIM-DJY,DBK 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:

- #12 white for common
- #12 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 4X6X5/8 copper grounding plates, 5/8X10 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.

Sprinkler 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" 5ch 40 PVC risers. The risers shall be set at a minimum of 18" off sidewalks, roadway curbing, building foundations, and/or any other landscaped 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.

DATE	BY	DESCRIPTION	REVISIONS

MILLER LEGG
1001 North Douglas Road - Suite 200 - Tallahassee, FL 32304
904.435.1000 - Fax: 904.435.8861 - email: mlegg@mllegg.com
Cdn. # 1001-10000001 - L.A. # 1001-10000001 - S. 1001-10000001

CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION NOTES

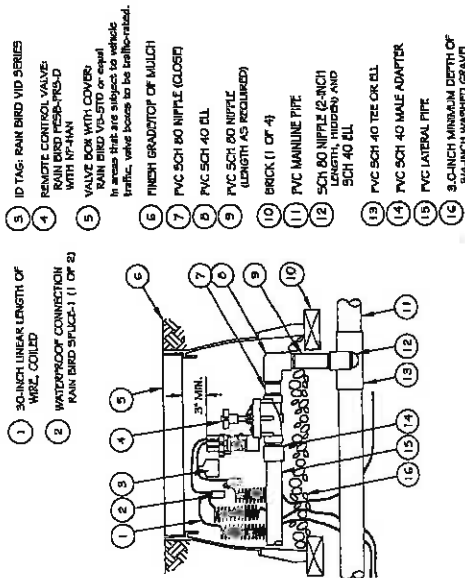
SHEET NO.
LD-53

ROAD NO.	COUNTY	WILLER LEGS PROJECT ID
7	BROWARD	07-00239

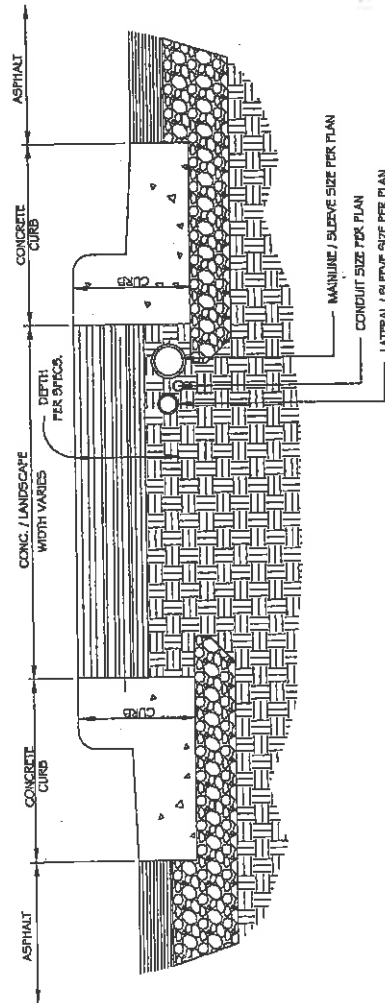
SECTION VIEW

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: 30-39 OHMS

PEB SERIES VALVE PRESSURE LOSS						
FLOW GPM	100-PEB P51		150-PEB P51		200-PEB P51	
	LOSS	1.7	LOSS	1.5	LOSS	1.2
5						
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					6.2	



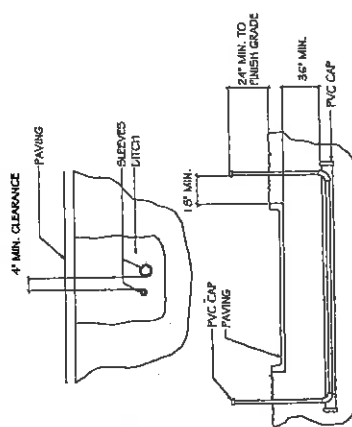
Rain Bird PEB-PRS-D Remote Control Valve



Curb to Curb Section

SECTION VIEW N.T.S.

Pipe and Wire Trenching



1511

1. ALL PVC IRRIGATION SLEEVING IS TO BE SCHEDULE 40 OR H.P.P.E. (PER PLAN).
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 TAMP TO 95% PROCTOR.

Irrigation Sleeve Detail

[illegible]

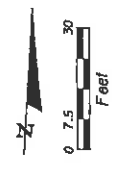
MILLER LEGG
1520 North Decatur Road • Suite 200 • Peachtree Pines, Georgia 30024
954-435-3002 • Fax: 954-436-5554 • www.millerlegg.com
Cmt. of Auth.: 131000351 • J.A. & Robert Scott R. Stone LA-6666793

CITY OF COCONUT CREEK		MILLER LEASE PROJECT RD
ROAD NO.	COUNTY	
7	BROWARD	07-00239

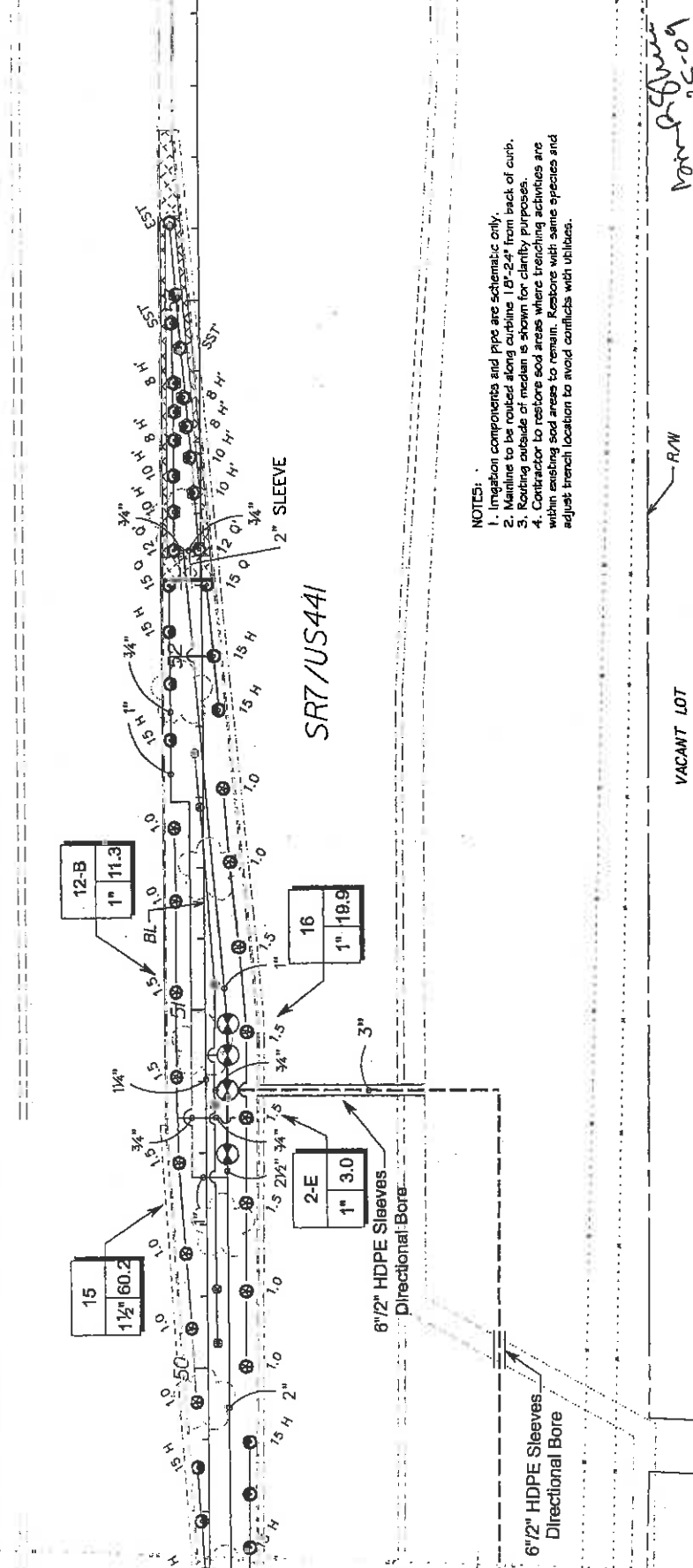
IRRIGATION DETAILS

SHEET
NO.

10-57



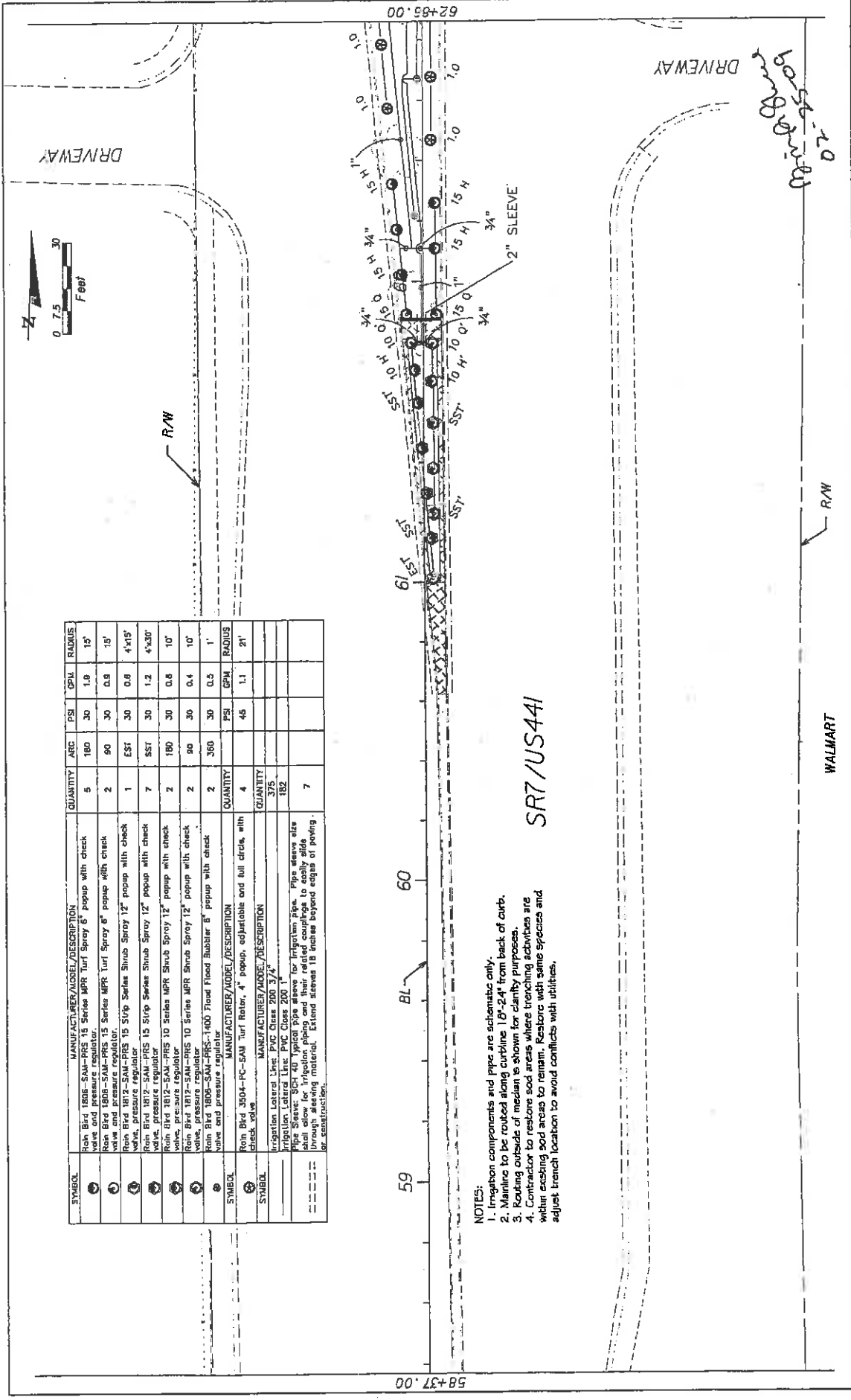
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
1	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	11	180.0	30	1.9	15'	2	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	3
2	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	2	80.0	30	0.9	15'	3	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	1
3	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	1	EST	30	0.6	4'x15'	4	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	884
4	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	3	EST	30	1.2	4'x30'	5	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	272
5	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	5	180	30	0.5	8'	6	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	114
6	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	4	180	30	0.8	10'	7	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	250
7	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	2	90	30	0.7	12'	8	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	34
8	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	6	380	30	0.5	1'	9	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	7
9	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	9	45	1.1	21'				
10	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 8" pop-up with check valve and pressure regulator.	7	45	1.5	24'				



- NOTES:
1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along curbline 18"-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.
 4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

Handwritten notes: *Handwritten signature*
05-25-09

DATE		DESCRIPTION		REVISIONS	
MILLER LEGG 100 North Douglas Road, Suite 201, Tempe, Arizona 85284 954-495-3008 • Fax 954-495-3694 • www.millerlegg.com Cdn. & Mex. Licenses: L.A. 470002551, L.A. 470002552, L.A. 470002553			CITY OF COCONUT CREEK ROAD NO. 7 COUNTY BROWARD PROJECT ID 07-00239		
IRRIGATION PLAN			SHEET NO. LD-70		



SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
1	Rain Bird 1808-SAM-PRS 15 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	5	180	30	1.9	15'
2	Rain Bird 1808-SAM-PRS 15 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	2	90	30	0.9	15'
3	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" pop-up with check valve and pressure regulator.	1	EST	30	0.8	4'x15'
4	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" pop-up with check valve, pressure regulator.	7	EST	30	1.2	4'x30'
5	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" pop-up with check valve, pressure regulator.	2	180	30	0.8	10'
6	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" pop-up with check valve, pressure regulator.	2	90	30	0.4	10'
7	Rain Bird 1808-SAM-PRS 1400 Flood Flood Bubblers 6" pop-up with check valve and pressure regulator.	2	360	30	0.5	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
8	Rain Bird 3004-PC-SAM Turf Riser, 4" pop-up, adjustable and full circle, with check valve.	4		48	1.1	21'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
9	Irrigation Lateral Line: PVC Class 200 3/4"	375				
10	Irrigation Lateral Line: PVC Class 200 1"	182				
11	Pipe Sleeve: SCH 40 typical pipe sleeve for irrigation pipe. Pipe sleeve also has a 1/2" hole for irrigation piping and their related couplings to easily allow for installation and removal of material. Extend sleeves 18 inches beyond ends of piping for construction.	7				

NOTES:
 1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along outline 18'-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.
 4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

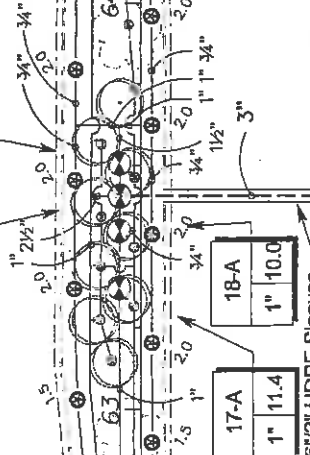
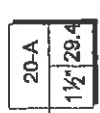
DATE		BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION
MILLER LEGG 1800 North Douglas Blvd., Suite 200, Portland, OR 97201 503-445-1000 Fax: 503-445-0864 Co. # 004512200001-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100				CITY OF COCONUT CREEK ROAD NO. 7 COUNTY BROWARD PROJECT ID 07-00239		SHEET NO. LD-72	

GAS STATION

NOTES:

1. Irrigation components and pipe are schematic only.
2. Mainline to be routed along outline 18" 24" from back of curb.
3. Routing outside of median is shown for clarity purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	CPM	RADIUS
1	Rain Bird 1800-SAM-PRS 12 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	30	180	30	1.3	12'
2	Rain Bird 1800-SAM-PRS 12 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	9	180	30	1.3	12'
3	Rain Bird 1800-SAM-PRS 12 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	18	360	30	0.5	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	CPM	RADIUS
4	Rain Bird 3504-PC-SAM Turf Rotor, 4" pop-up, adjustable and full ordn, with check valve.	4	45	45	1.1	21'
5	Rain Bird 3504-PC-SAM Turf Rotor, 4" pop-up, adjustable and full ordn, with check valve.	5	45	45	1.0	24'
6	Rain Bird 3504-PC-SAM Turf Rotor, 4" pop-up, adjustable and full ordn, with check valve.	7	45	45	1.8	27'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	CPM	RADIUS
7	Rain Bird PED-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	2				
8	Rain Bird PED-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator.	2				
9	Irrigation Lateral Line PPG Class 200 3/4"	1220				
10	Irrigation Lateral Line PPG Class 200 1"	240				
11	Irrigation Lateral Line PPG Class 200 1 1/2"	240				
12	Irrigation Mainline PPG Class 200 3"	288				
13	Irrigation Mainline PPG Class 200 3 1/2"	475				
14	Irrigation Mainline PPG Class 200 4"	475				



6\"/>

SR7/US441

Ver. 1.0
09/10/2010

DATE		BY		REVISIONS		DESCRIPTION		DATE		BY	
MILLER LEGG						CITY OF COCONUT CREEK					
1800 Red Dragon Blvd. Suite 200, Phoenix, AZ 85024						MILLER LEGG PROJECT ID					
944-43-0001 Fax: 944-43-0001 www.millerlegg.com						7 BROWARD OT-00239					
City of Miami, Dade County, FL						BROWARD COUNTY PARK					
SHEET NO.						LD-73					



- NOTES:**
1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along surface 12'-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.
 4. Contractor to restore and seal areas where branching activities are within existing road areas to remain. Restored with same species and adjust trench location to avoid conflicts with utilities.

RETAIL

ELECTRICAL / PHONE CONNECTION:

1. Florida Power and Light and AT&T connection location to be determined.
2. Contractor to provide 200 VAC Phase 3 power, coordination with P&L, all necessary wire, conduit and hand hole box to meter source.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	SPW	RADIUS
	Rain Bird 1800-SAM-PRS-TS 5/8" Sprinkler Turf Spray 6" pop-up with check valve and pressure regulator	1	15T	50	0.8	4'-0"
	Rain Bird 1800-SAM-PRS-TS 5/8" Sprinkler Turf Spray 6" pop-up with check valve and pressure regulator	2	180	50	0.8	10'
	Rain Bird 1800-SAM-PRS-1000 Flood Flood Bladder 6" pop-up with check valve and pressure regulator	17	360	30	0.5	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	PSI	SPW	RADIUS	
	Rain Bird 3004-PC-SAM Turf Rotor, 4" pop-up, adjustable and full circle, with check valve	38	45	1.1	21'	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY				
	Rain Bird PCB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator	1				
	Rain Bird PCB-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator	2				
	Nilaco P-619-rw Gasketed "a" Rkvg Cast Iron Gate Valve (line size) in a Caren 1419 Valve Box.	1				
	Hoover Pumping Station Model: HOF-1090-230/3-AE-12.5M.W.	1				
	Rain Bird ESP-125AT Solenoid Controller - 12 Stations	1				
	Rain Bird Medium Rain Gauge	1				
	Irrigation Lateral Line: PVC Class 200 3/4"	1108				
	Irrigation Lateral Line: PVC Class 200 1"	105				
	Irrigation Lateral Line: PVC Class 200 1 1/4"	18				
	Irrigation Lateral Line: PVC Class 200 2"	110				
	Irrigation Mainline: PVC Class 200 3"	663				
	Pipe Sleeve: HDPE typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their rubber couplings to easily slide through steering mandrel. Extend sleeves 10 inches beyond edges of paving or construction.	47				

2 1/2" Conduits Directional Bore

Hoover Pumping Station "B"

18-B 20-B 1 1/2" 45.6 1" 9.0

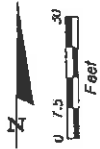
6 1/2" HDPE Sleeves Directional Bore

Nilaco P-619-RW 3" Gate Valve

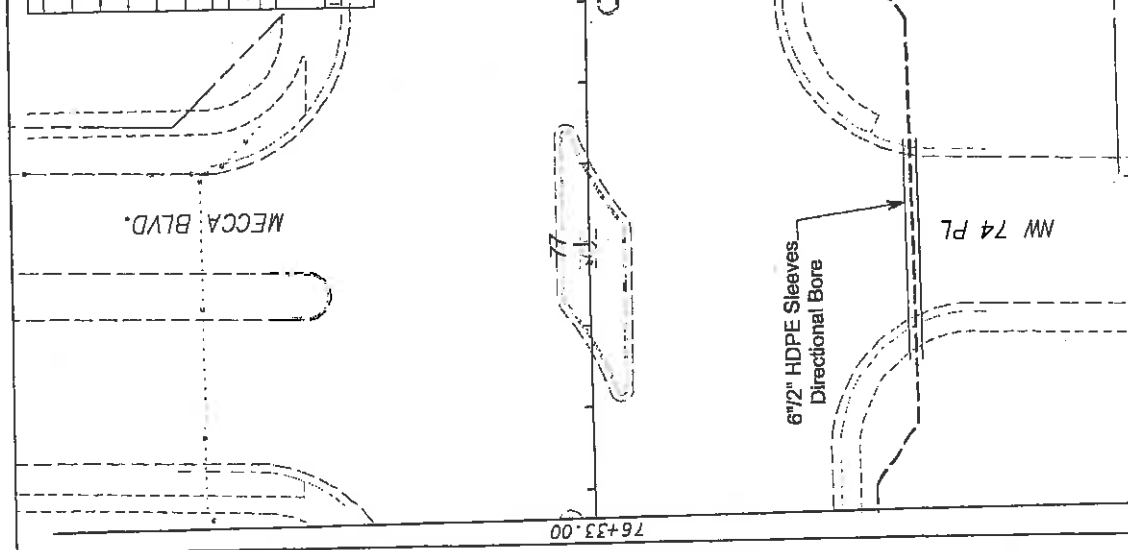
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BROWARD COUNTY PARK

DATE		BY		DESCRIPTION		REVISIONS	
CITY OF COCONUT CREEK				MILLER LEGG			
COUNTY				MILLER LEGG PROJECT ID			
ROAD NO. 7				BROWARD 07-00239			
SHEET NO. LD-74				DATE 12/29/2008			



SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
1	Roll Bird 1800-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	3	EST	30	0.8	4'x15'
2	Roll Bird 1800-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	10	SST	30	1.2	4'x30'
3	Roll Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator.	1	EST	30	0.8	4'x15'
4	Roll Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator.	6	SST	30	1.2	4'x30'
5	Roll Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve, pressure regulator.	4	180	30	0.8	10'
6	Roll Bird 1800-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator.	1	360	30	0.5	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
7	Irrigation Lateral Line PVC Class 200 3/4"	285				
8	Irrigation Mainline PVC Class 200 3"	93				
9	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their respective components to be installed through existing material. Extend sleeves 18 inches beyond edges of paving.	448				
10	Pipe Sleeve: SCH 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their respective components to be installed through existing material. Extend sleeves 18 inches beyond edges of paving or construction.	81				



REVISIONS

DATE	BY	DESCRIPTION

PROJECT INFORMATION

CITY OF COCONUT CREEK

WILLER LEGG

1800 North Highway 100, Suite 300, Chandler, AZ 85224
 480-485-7000 Fax 480-485-6661 www.willerg.com
 City of Chandler, AZ 85224

PROJECT ID

WILLER LEGG PROJECT ID

7

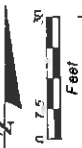
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07-00239

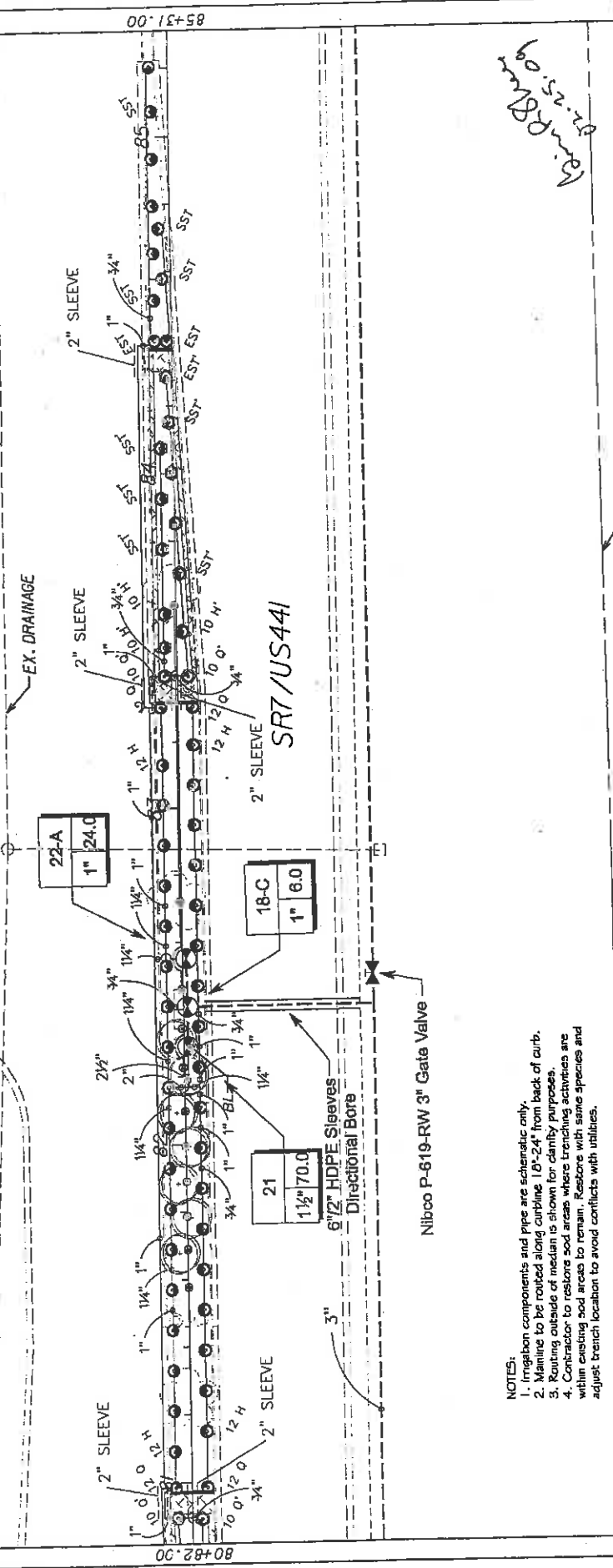
PROJECT NAME

IRRIGATION PLAN

LD-76

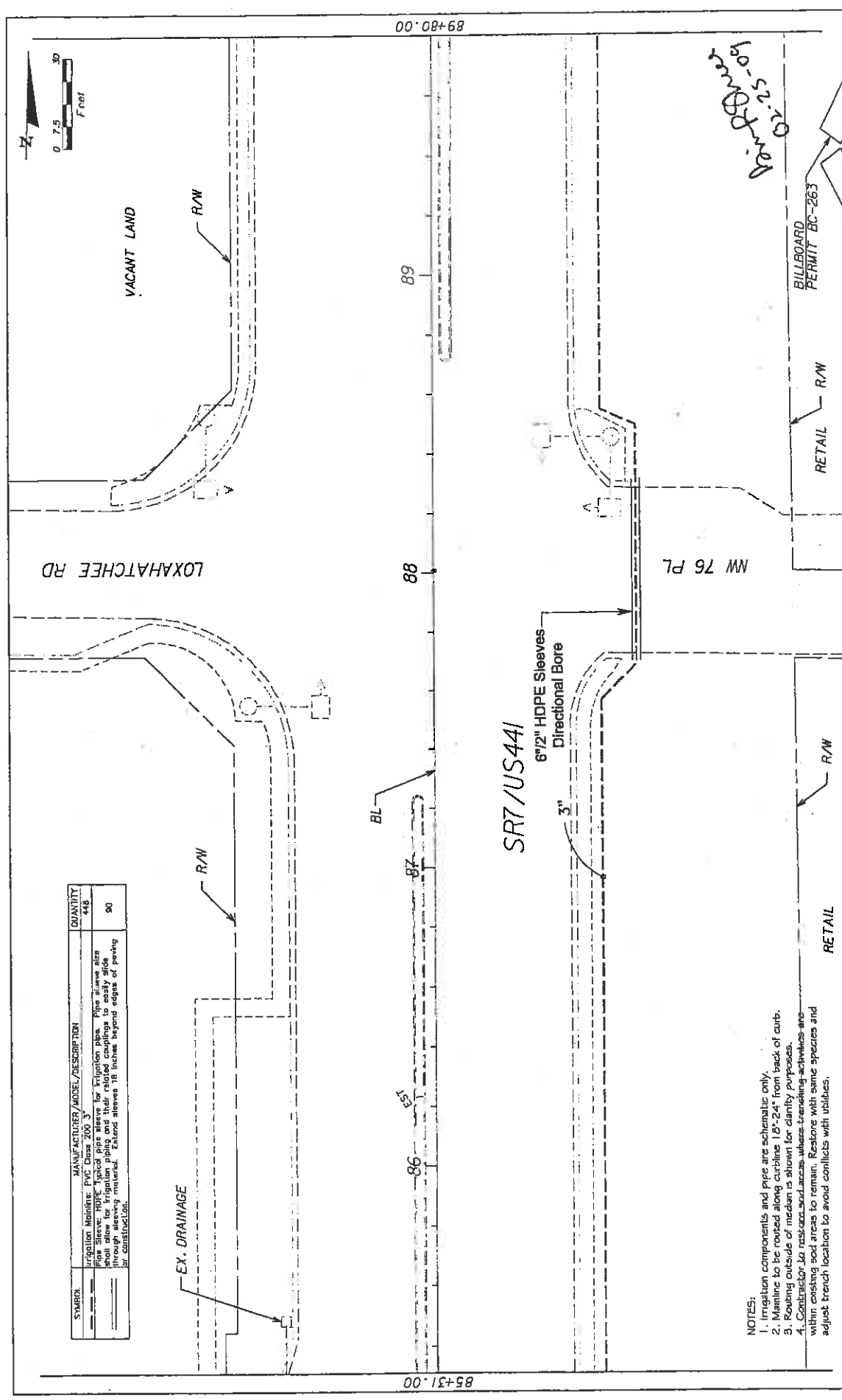


SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PS	GPW	RADIUS	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
1	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	2	125'	30	0.6	4'x12"	1	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	2
2	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	8	SST	30	1.2	4'x30"	2	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	1
3	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	30	140	30	1.3	12'	3	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	1
4	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	4	90	30	0.7	12'	4	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	1
5	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	1	EST	30	0.6	4'x15'	5	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	1
6	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	7	SST	30	1.2	4'x30"	6	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	1
7	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	3	180	30	0.8	10'	7	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	1
8	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	4	90	30	0.4	10'	8	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	1
9	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	11	360	30	0.5	1'	9	Rob Bird 1805-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	1



- NOTES:
1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along curbline 18'-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.
 4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

DATE		BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION
MILLER LEGG 1800 North Douglas Road, Suite 200, Bucklehead, Okla. 73004 918-485-7000 Fax 918-485-6661 - www.millerlegg.com Cost of Job: \$1,000,000.00 L.A. of Record: Item 1, Sheet 12 of 60 CITY OF COCONUT CREEK PROJECT NO. 07-00239 COUNTY MILLER LEGG PROJECT ID ROAD NO. 7 BROWARD							
IRRIGATION PLAN				SHEET NO. LD-77			



SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
---	Irrigation Mainline: PVC Class 200 3"	448
---	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related components to easily slide in and out of the sleeve. Sleeve sleeves 10 inches beyond edges of paving or construction.	90

- NOTES:
1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along cutline 18'-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.
 4. Contractor to restore all areas where trenching activities are within existing road areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

DATE		BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION
MILLER LEGG 1805 North Dixie Ave. - Suite 200 - Jacksonville, Florida 32204 904-455-2001 Fax: 904-455-2004 - www.millerlegg.com Div. of M&E - 1100000001 - L.A. & B. 1000000001 - L.A. & B. 1000000001				CITY OF COCONUT CREEK ROAD NO. 7 COUNTY BROWARD MILLER LEGG PROJECT ID 07-00239		SHEET NO. LD-78 IRRIGATION PLAN	



HILLSBORO CANAL

- NOTES:
1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along curbline 10'-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.
 4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust bench location to avoid conflicts with utilities.

R/W

END PROJECT
END IRRIGATION
93+00

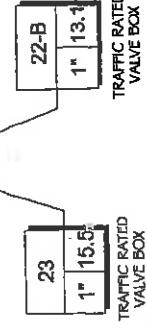
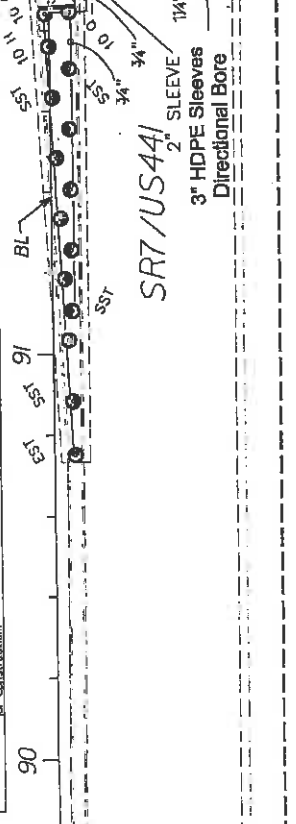
BRIDGE

EX. CITY SIGN

HILLSBORO CANAL

LD-79
or
LD-79

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PS	GPU	RADIUS
1	Rain Bird 1800-SAM-PRS 15 Strip Series Turf Spray 6" pop-up with check valve and pressure regulator.	11	SST	30	1.2	4'x15'
2	Rain Bird 1800-SAM-PRS 10 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	1	180	30	0.8	10'
3	Rain Bird 1800-SAM-PRS 15 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	2	90	30	0.4	10'
4	Rain Bird 1812-SAM-PRS 8 Series MPR Strub Spray 12" pop-up with check valve, pressure regulator.	6	180	30	0.5	8'
5	Rain Bird 1812-SAM-PRS 10 Series MPR Strub Spray 12" pop-up with check valve, pressure regulator.	2	90	30	0.3	8'
6	Rain Bird 1812-SAM-PRS 10 Series MPR Strub Spray 12" pop-up with check valve, pressure regulator.	9	180	30	0.8	10'
7	Rain Bird 1812-SAM-PRS 10 Series MPR Strub Spray 12" pop-up with check valve, pressure regulator.	8	90	30	0.4	10'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PS	GPU	RADIUS
8	Rain Bird PEB-PRS-1 1" Electric Remote Control Valve with Pressure Regulator.	2				
9	Irrigation Lateral Line: PVC Class 200 3/4"	500				
10	Irrigation Lateral Line: PVC Class 200 1 1/4"	63				
11	Irrigation Lateral Line: PVC Class 200 1 1/2"	194				
12	Irrigation Lateral Line: PVC Class 200 1 1/2"	4				
13	Irrigation Lateral Line: PVC Class 200 1 1/2"	47				
14	Irrigation Mainline: PVC Class 200 3"	420				
15	Irrigation Mainline: PVC Class 200 3"	44				
16	Irrigation Mainline: PVC Class 200 3"	20				



RESIDENTIAL

DATE		BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION
CITY OF COCONUT CREEK							
ROAD NO.		COUNTY		MILLER LEGG PROJECT NO.		MILLER LEGG PROJECT NO.	
7		BROWARD		07-00239		07-00239	
MILLER LEGG 8801 North US Highway 1, Suite 200, Fort Lauderdale, Florida 33304 954-435-7000 • Fax 954-435-8864 • www.millerlegg.com Date of Issue: 12/08/2007 • L.A. El Dorado, Ryan R. Smith, L.A. 4660770							
SHEET NO.		LD-79		DATE		07-20-08 AM	
PROJECT NO.		LD-79		PROJECT NO.		LD-79	

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 descriptions 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 shall be 55 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 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 authorized 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 accommodations 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 top assemblies or reassigning 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 coordination 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.
3. 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 10f1
 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 mized. 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 accommodate 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 routes 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 the 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 division, (954) 847-2600, to arrange a pre-construction school safety meeting.

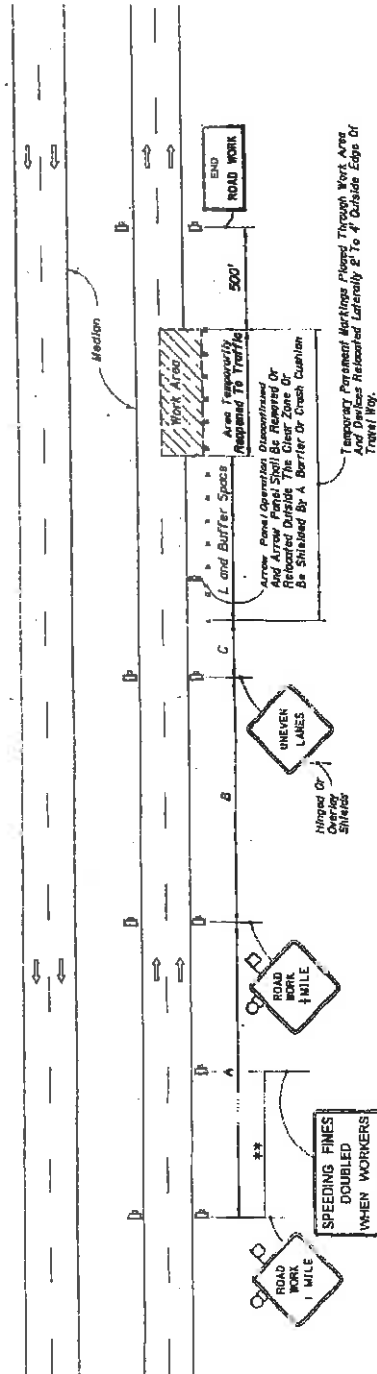
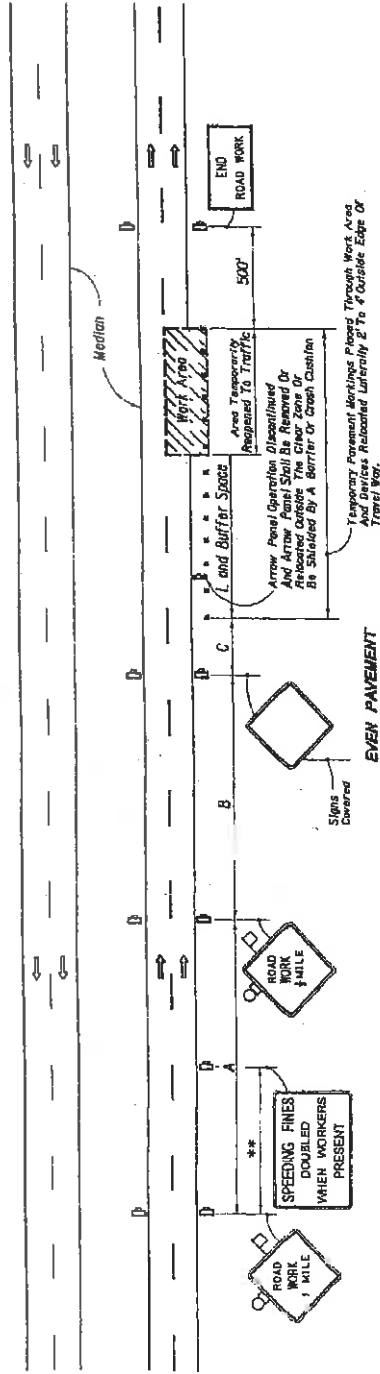
Landscape plan specific notes:

1. GR-7 Southbound and Sawgrass Expressway Westbound Ramp Signal Operation
- a. Contractor to cover signal heads or make signal head revisions where impacted as required due to maintenance of traffic per FDOT standard index 600 and fdot traffic operations office.
2. INTERSECTIONS: Sawgrass Expressway Westbound Ramp; N.W. 61st Street; Regency Lakes Blvd.; Johnson Rd./Holmberg Rd.; Hillsboro Blvd.; Loxahatchee Rd.
 - 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.
3. INTERSECTION: Johnson Rd./Holmberg Rd.
 - a. 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 Maintenance of traffic school / pedestrian criteria.

 MILLER LEGG 1801 Northchase Blvd. Suite 300, Jacksonville, Florida 32216 904.456.7000 Fax: 904.456.9661 www.millerlegg.com Doc. # MGT-000001 - Project & Road Work Construction				CITY OF COCONUT CREEK ROAD NO. COUNTY FILER LEGG PROJECT ID 7 BROWARD 07-00239		TRAFFIC CONTROL NOTES SHEET NO. LD-80	
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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



INTERMITTENT WORK STOPPAGE - LANE REOPENED TO TRAFFIC

DATE		BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION
MILLER/LEGG 1800 South Loop West, Suite 200, Fort Worth, Texas 76104 817-341-1000 • Fax: 817-341-1001 • www.millerlegg.com Dist. of Ind.: 180007018 • Engineer: 180007018 • Construction: 180007018 CITY OF COCONUT CREEK ROAD NO. 7 COUNTY BROWARD DISTRICT 07 - 00239 MILEAGE PROJECT 07-00239 TRAFFIC CONTROL DETAILS SHEET NO. LD-81							

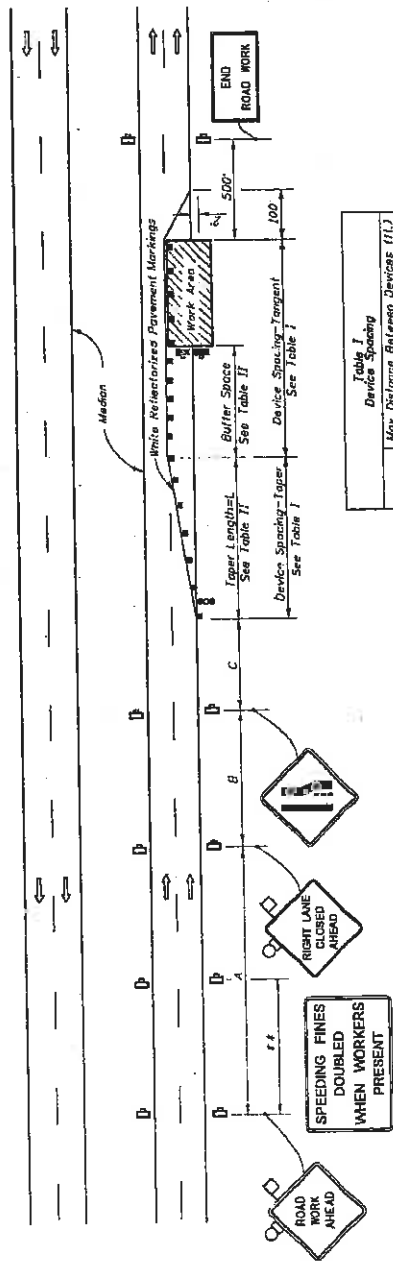


Table II
Buffer Space and Taper Length

Speed (mph)	Buffer Space (ft.)	Taper Length (ft.)	Notes (Mileage)
25	155	125	
30	200	180	$L = 5.2$
35	250	245	$L = 6.0$
40	305	320	
45	360	410	
50	425	510	
55	495	630	
60	570	770	$L = WS$
65	645	930	
70	730	1110	

When Buffer Space cannot be obtained due to geometric constraints, the greatest obtainable 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
WS = Work Space in feet
S = Posted speed limit (mph)

Table I
Device Spacing

Speed (mph)	Cones or Tubular Markers (Type I or Type II)	Drums (Type I or Type II)	Signs (Type I or Type II)
25	25	50	50
30	25	50	50
35	25	50	50
40	25	50	50
45	25	50	50
50	25	50	50
55	25	50	50
60	25	50	50
65	25	50	50
70	25	50	50

GENERAL NOTES

- Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
- On undivided highways the median signs as shown are to be omitted.
- When work is performed in the median lane or divided highways, the centerline shall be marked with a "V" and the left lane closed and end signs substituted for the right lane closed and lane end signs.
- For general TCE requirements and additional information, refer to Index No. 600.

DISTANCE BETWEEN SIGNS

Speed (mph)	Spacing (ft.)
20 mph or less	200
25 mph	300
30 mph	400
35 mph	500
40 mph or greater	600

- The ROAD WORK 1 MILE sign may be used as an alternate to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED 1/2 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.

SYMBOLS

- Work 2-1-1
- Sign with 18" x 18" White Orange Flag and Type B Light
- Channeling Device (See Index No. 600)
- Type I Type II Or Type III Barricade Or Vertical Panel Drum (W'n Flashing Light)
- Work Zone Sign
- Advance Warning Arrow Panel

DURATION NOTES

- Temporary white angles may be omitted for work operations less than 3 days.
- Signs, arrow panels and buffer space may be omitted if all of the following conditions are met:
 - Work operations are 60 minutes or less.
 - No sign obstructions to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
 - Vehicles in the work area have high-intensity, rotating, warning flashing lights.
 - Volume and complexity of the roadway has been considered.

CONDITIONS

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

DATE		BY		REVISIONS		DESCRIPTION	

MILLER LEGG		CITY OF COCONUT CREEK	
1800 North Highway 101, Suite 300, Phoenix, Arizona 85028 504-435-7001 Fax: 504-435-7002		MILLER LEGG PROJECT ID	
COUNTY		7	
BROWARD		07-00239	
SHEET NO.		LD-82	

SECTION No.(s): 86028000, 86120000,
86100000, 86130000
S.R. No.(s): 834, 810, 7, 814
FM No.(s): 409222-1-74-01
423268-1-58-01
423270-1-58-01
WPI Nos.: 4119110
4110332
RESOLUTION No.: 96-72

EXHIBIT E
MAINTENANCE PLAN(S)

See Attached

SECTION No.(s): 86028000, 86120000,
86100000, 86130000
S.R. No.(s): 834, 810, 7, 814
FM No.(s): 409222-1-74-01
WPI No(s): 4119110
4110332
RESOLUTION No.: 96-72

EXHIBIT F

PENDING AGENCY PROJECT(S) COST ESTIMATE

I. Phase I - State Road 7 (US 441) South Medians

FDOT PARTICIPATION: \$200,000.00
Via Separate Agreement

AGENCY PARTICIPATION: \$200,000.00

II. Phase II- State Road 7 (US 441) North Medians

FDOT PARTICIPATION: \$250,000.00
Via Separate Agreement

AGENCY PARTICIPATION: \$250,000.00

III. TOTAL APPROXIMATE PROJECT COST: \$900,000 .00

All Amounts are approximate

MAINTENANCE PLAN

Project Name: State Road 7 – US-441

Project Limits: First median North of SR869 (Sawgrass Expressway) to the Broward/Palm Beach County Line

Maintenance Limits: First median North of SR869 (Sawgrass Expressway) to the Broward/Palm Beach County Line

FM Funding Nos.: 423268-1-58-01 (South) & 423270-1-58-01 (North)

Maintaining Agency: City of Coconut Creek

Landscape, Irrigation and Hardscape Plans

The purpose for the following performance based descriptions of landscape maintenance practices is to allow the plant material on your project to thrive in a safe and vigorous manner. Plantings shall be maintained to conform to all of the requirements, but not limited to the following: sight visibility, horizontal setbacks, and vertical clearances as set forth by Florida Department of Transportation's governing standards and specifications; FDOT Design Standards (Most Current Date) and Standard Specifications for Road and Bridge Construction (Most Current Date), as amended by contract documents.

1.0 Watering Requirements:

- a. Watering is probably the most critical concern regarding the maintenance of healthy plant material. The amount of water to apply at any one time varies with the weather, drainage conditions and water holding capacity of the soil.
- b. Proper watering techniques should provide even and thorough water dispersal to wet the entire root zone, but not to saturate the soil, and should avoid over-spray onto travel lanes. Furthermore, the Agency should maintain the rain sensors (if on an irrigation system), to ensure that they are functioning properly and that the system does shut down when there is sufficient rainfall.
- c. Avoid extremes in watering. Light, frequent watering is ineffective and produces shallow root systems. Excessive watering that keeps the root zones saturated may kill the plant material due to the lack of available air to the root zone. A typical rule of thumb is that turf areas should receive on an average, a minimum of 1" of water per week, with an equal or lesser amount for trees and shrubs, depending on their individual water usage.

2.0 Irrigation:

- a. The system should be checked periodically for proper operation. Ensure there is no overspray onto roadways and sidewalks. All irrigation activities should not be scheduled during the daytime hours (most notably rush hour traffic periods).

3.0 Fertilization/Insecticides/Fungicides:

- a. Due to the poor shallow root soils of the South Florida area, coupled with heavy rainfall during the growing season, available nutrient levels for landscape materials are very low, therefore nutrient amendments are essential. A soil analysis of each planting site should be completed to determine the nutrient levels needed for vigorous plant growth.
- b. Trees, palms, shrubs, groundcovers and turf areas should be fertilized in such a manner and frequency to ensure that the plant material remains healthy, without under or over nourishing them. An integrated plant management program is required to ensure healthy plants, free of disease and pests. Insecticides and fungicides shall be applied as needed to ensure that plants and grass remain pest and disease free.

4.0 Mulching:

- a. Planting beds should be mulched in such a manner as to: prevent weed growth, retain moisture for use by plants, protect soil from erosion and the loss of nutrients, maintain a more uniform soil temperature and maintain a manicured appearance. Mulch should always be kept away from the trunks of trees, shrubs and palms to prevent rotting and susceptibility to disease. No mulch from a native source should be utilized.

5.0 Pruning:

- a. All pruning shall adhere to ANSI A300 standards (and safety criteria adhered to) and shall be overseen by an ISA Certified Arborist. The older fronds on the Royal Palms, if applicable, shall be routinely pruned to insure that fronds do not fall onto any travel lanes. All pruning shall be done with the health and natural growth of the plant materials in mind. Specific pruning heights of the landscape material shall be determined in order to maintain clear site windows and vertical clearances for pedestrian and truck traffic where applicable. Visibility windows must be free of obstructions.
- b. The desired growth habit in landscape planting beds shall be such that shrubs of the same species shall develop into a single mass and be kept separate from adjacent masses of other species.

6.0 Staking and Guying:

- a. All staking material (except for replacements) will be removed at the completion of the one-year warranty period before the City takes over maintenance of the plantings.

7.0 Turf Mowing:

- a. All grassed areas are to be mowed and trimmed with sufficient frequency to maintain a neat and clean appearance.

8.0 Litter Control:

- a. The project site shall remain litter free.

9.0 Weeding/Herbicide:

- a. All planting areas shall be maintained to be as weed free as possible with mechanical and/or chemical weeding. When utilizing herbicide, extreme care should be taken to avoid any overspray onto plant materials. Any damage resulting from overspray will be the applicator's responsibility to restore per approved plan.

10.0 Plant Replacement

- a. Plant replacement shall be the same species and specification as the approved plan. Only plants graded Florida #1 per the Florida Department of Agriculture and Consumers Services, Grades and Standards for Nursery Plants is 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.

11.0 Hardscape:

- a. The hardscape areas located within the medians shall be maintained to be as clean and weed free as possible. Periodic pressure cleaning or similar method is required to maintain a clean surface. Any damage and/or repair should be done in a timely manner to maintain a clean appearance.

12.0 Maintenance Traffic Control:

- a. 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>

REFERENCES

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/ansidocstore/find.asp?>

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/06/544.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/06/546.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/06/700.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/2007/Volume1/2007Vol1.htm>

Florida Department of Transportation, *FDOT Standard Specifications for Road and Bridge Construction, Section 580 Landscape Installation*
<http://www.dot.state.fl.us/specificationsoffice/2007BK/580.pdf>

Florida Department of Transportation, *Maintenance Rating Program Handbook*
<http://infonet.dot.state.fl.us/statemaintenanceoffice/MRPHandbook2007Edition.pdf>

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

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>

END OF SECTION

SECTION No.(s): 86028000, 86120000,
 86100000, 86130000
S.R. No.(s): 834, 810, 7, 814
FM No.(s): 409222-1-74-01
 423268-1-58-01
 423270-1-58-01
WPI Nos.: 4119110
 4110332
RESOLUTION No.: 96-72

EXHIBIT F

PENDING AGENCY PROJECT(S) COST ESTIMATE

I. Phase I - State Road 7 (US 441) South Medians

FDOT PARTICIPATION: \$200,000.00
Via Separate Agreement

AGENCY PARTICIPATION: \$200,000.00

II. Phase II- State Road 7 (US 441) North Medians

FDOT PARTICIPATION: \$250,000.00
Via Separate Agreement

AGENCY PARTICIPATION: \$250,000.00

III. TOTAL APPROXIMATE PROJECT COST: \$900,000 .00

All Amounts are approximate

SUMMARY OF LANDSCAPE PLANS - OPINION OF PROBABLE COST

423268-1-58-01 & 423270-1-58-01 - State Road 7 / US 441

SUMMARY OF PROJECT

TOTAL - 101-1 MOBILIZATION	\$38,224.95
TOTAL - 102-1 MAINTENANCE OF TRAFFIC	\$15,289.98
TOTAL - 110-1-1 CLEARING AND GRUBBING	\$15,208.09
TOTAL 347-1 PORTLAND CEMENT CONCRETE-CLASS 1(NONSTRUCTURAL)	\$542.40
TOTAL - 526-1-1 ARCHITECTURAL PAVERS	\$59,490.00
TOTAL - 575-1-1 SOD	\$49,548.00
TOTAL - 580-1-1 LANDSCAPE COMPLETE (SMALL)	\$94,262.72
TOTAL - 580-1-2 LANDSCAPE COMPLETE (LARGE)	\$50,318.78
TOTAL - 590-70 IRRIGATION SYSTEM COMPLETE	\$495,129.00
SUB-TOTAL PROJECT	\$818,013.92
10% Contingency fee	\$81,801.39
2% Permits	
TOTAL PROJECT - OPINION OF PROBABLE COST	\$899,815.32

SUMMARY BY MEDIAN

SUBTOTAL - State Road 7 - Median #1 - City of Coconut Creek	\$140,071.32
SUBTOTAL - State Road 7 - Median #2 - City of Coconut Creek	\$130,771.71
SUBTOTAL - State Road 7 - Median #3 - City of Coconut Creek	\$100,991.77
SUBTOTAL - State Road 7 - Median #4 - City of Coconut Creek	\$94,627.09
SUBTOTAL - State Road 7 - Median #5 - City of Coconut Creek	\$17,291.52
SUBTOTAL - State Road 7 - Median #6 - City of Coconut Creek	\$55,485.02
SUBTOTAL - State Road 7 - Median #7 - City of Coconut Creek	\$79,354.59
SUBTOTAL - State Road 7 - Median #8 - City of Coconut Creek	\$112,073.42
SUBTOTAL - State Road 7 - Median #9 - City of Coconut Creek	\$0.00
SUBTOTAL - State Road 7 - Median #10 - City of Coconut Creek	\$60,318.16
SUBTOTAL - State Road 7 - Median #11 - City of Coconut Creek	\$27,029.33

PLANT MATERIAL - LABOR / PROFIT / OVERHEAD - FACTOR:		1.25
ABBREVIATIONS		
cal.	caliper	ht.
c.i.	clear trunk	min.
c.y.	cubic yards	o.a.h.
d.b.h.	diameter breast height	o.c.
gal.	gallon	s.f.
g.w.	gray wood	sq.

height
minimum
overall height
on center
square foot
spread

February 25, 2009

Note: Opinion of Probable Cost based upon MOA Submittal.



LANDSCAPE PLANS - OPINION OF PROBABLE COST
423268-1-58-01 & 423270-1-58-01 - State Road 7 / US 441

State Road 7 - City of Coconut Creek

Landscape Architect of Record: Brian R. Shore, RLA
RLA# LA-6666770
Date: February 25, 2009

SUMMARY OF LANDSCAPE PLANS - OPINION OF PROBABLE COST

423268-1-58-01 & 423270-1-58-01 - State Road 7 / US 441

SUMMARY OF PROJECT

TOTAL - 101-1 MOBILIZATION	\$38,224.95
TOTAL - 102-1 MAINTENANCE OF TRAFFIC	\$15,289.98
TOTAL - 110-1-1 CLEARING AND GRUBBING	\$15,208.09
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TOTAL - 575-1-1 SOD	\$49,548.00
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TOTAL - 590-70 IRRIGATION SYSTEM COMPLETE	\$495,129.00
SUB-TOTAL PROJECT	\$818,013.92
10% Contingency fee	\$81,801.39
2% Permits	
TOTAL PROJECT - OPINION OF PROBABLE COST	\$899,815.32

SUMMARY BY MEDIAN

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PLANT MATERIAL - LABOR / PROFIT / OVERHEAD - FACTOR:
ABBREVIATIONS

1.25

cal. caliper
c.l. clear trunk
c.y. cubic yards
d.b.h. diameter breast height
gal. gallon
gray gray wood

ht.
min.
o.s.h.
o.c.
s.f.
spr.

height
minimum
overall height
on canier
square foot
spread

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

State of Florida
County of Broward
City of Coconut Creek
I HEREBY CERTIFY that this is a true and correct copy
of Resolution No. 2009-42
Witness my hand the Official Seal of
The City of Coconut Creek this 30th day of
April 2009
[Signature]
City Clerk

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.

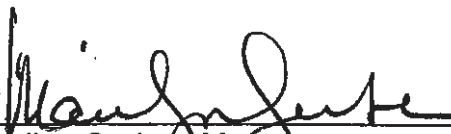
Adopted this 23rd day of April, 2009 on a motion by Commissioner Tooley and seconded by Vice Mayor Aronson.

Ayes 5

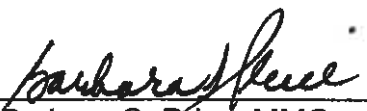
Nays 0

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

\\Pdcd\data\Development Services\MBowers\Documents\Project Coordinator\Resolutions\Res688 maintenance agreement state rd 7
fdot cck.doc
4-13-09