



**Department of Natural Resource Protection**

Biological Resources Division  
218 S.W. 1st Avenue  
Fort Lauderdale, FL 33301

(954) 519-1230 • FAX (954) 519-1412

May 11, 1999

Dylan Larson  
Miller Legg and Associates, Inc.  
1800 North Douglas Road, Suite 200  
Pembroke Pines, Florida 33024-3200

RE: Wiles Butler PUD -- License Modification  
DPEP License No. DF96-1011  
Modification of Lake Configuration

Dear Mr. Larson:

Your request to modify the referenced license is hereby approved. The modification consists of the reconfiguration of the original lake within Tract D into two lakes, interconnected by culverts. The lakes will be 3.3 acres and 2.4 acres. Within the 2.4 acre lake, 255 linear feet of wooden bulkhead will be constructed in conjunction with the clubhouse. Lake slopes shall be as per attached plans in conformance with Section 27-337(b)(13). Three headwalls are existing, five additional headwalls will be installed as per attached plans.

The scope and all other conditions of the license remain the same. Attach this letter and the attached drawings dated May 11, 1999 to the original license as they become a part thereof.

This license modification does not constitute a waiver or approval of any other license, approval, or regulatory requirement by this or any other agency that may be required. If you have any questions, please contact Donald Burgess at the letterhead address.

Sincerely,

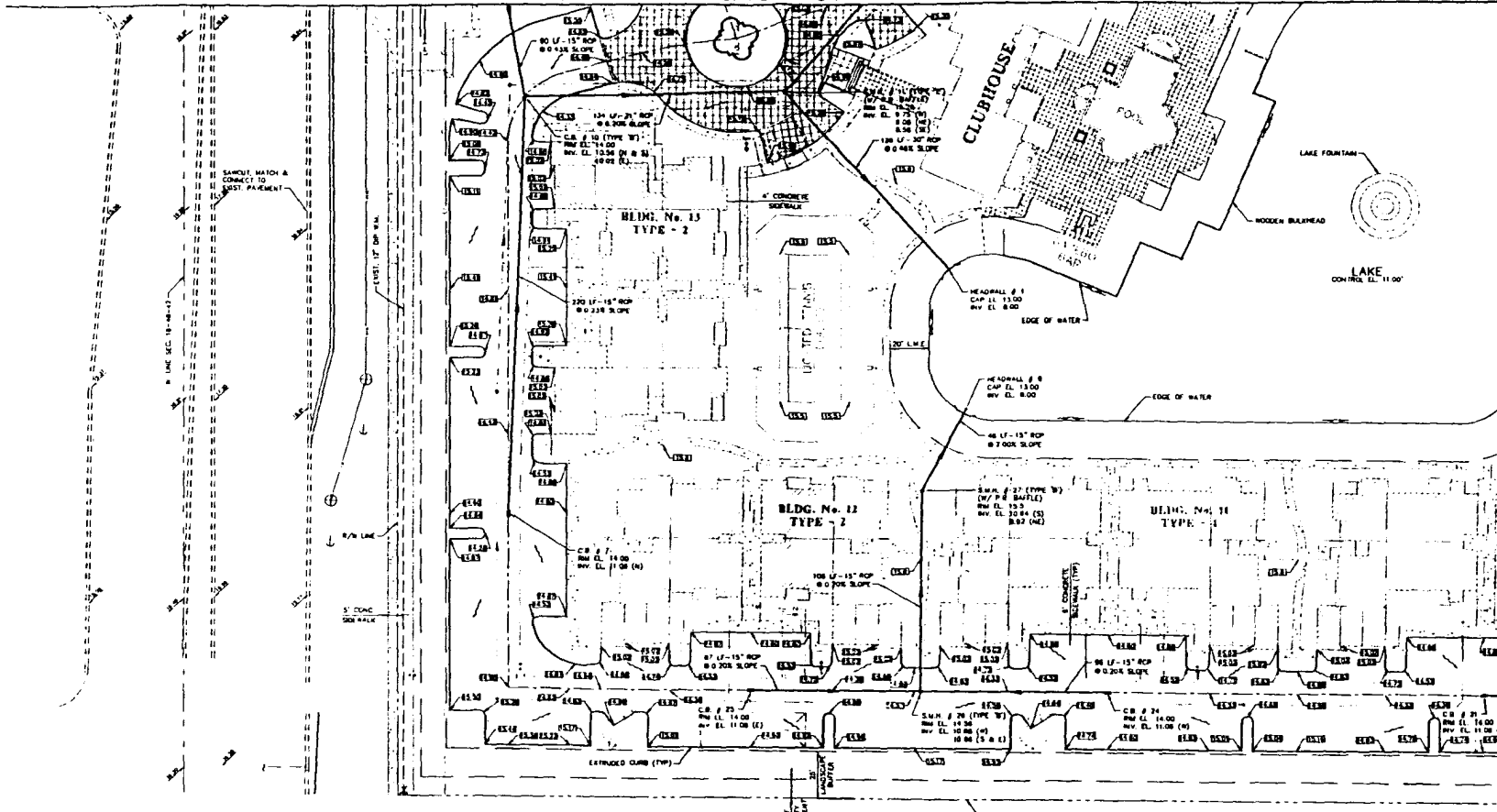
A handwritten signature in cursive script that reads "Eric T. Myers".

Eric T. Myers, Director  
Biological Resources Division

ETM:dcb  
Attachment

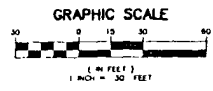
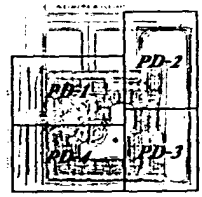
cc: Gary Smigiel, Smigiel Partners II, Ltd.  
Anita Bain, SFWMD  
Carl Carlisle, City of Coconut Creek

REFER TO DRAWING NO. PD-1 FOR CONTINUATION



REFER TO DRAWING NO. PD-3 FOR CONTINUATION

TRACT 8  
"PALM BEACH FARMS CO. PLAT NO. 3"  
(PLAT BOOK 2, PAGES 45-54 P.B.C.R.)



**BROWARD COUNTY**  
DEPARTMENT OF NATURAL RESOURCE PROTECTION  
BIOLOGICAL RESOURCES DIVISION  
ENVIRONMENTAL RESOURCE LICENSE  
BROWARD COUNTY CODE 27-331 to 27-341  
PROJECT Water Butler Tract D  
REVIEWER [Signature] DATE 5/2/99  
ATTACHED TO LICENSE NO. 1896-1011 MOD  
DRAWING 1 of 7 : EXPIRES AS INDICATED IN LICENSE

SUBMIT FOR APPROVAL  
FEB 26, 1999

Michael D. [Signature]  
31348 03/28/1999

PAVING AND DRAINAGE PLAN

THE PRESERVE AT COCONUT CREEK  
CITY OF COCONUT CREEK, FLORIDA

Engineers, Architects  
and Surveyors  
Environmental Planners  
**MILLEGES**  
1800 N. Congress Ave., Suite 200  
P.O. Box 10000, Fort Lauderdale, FL 33310-1000  
(954) 319-7000 Fax (954) 319-8884

8460-13  
PD-3  
6  
1/25/99



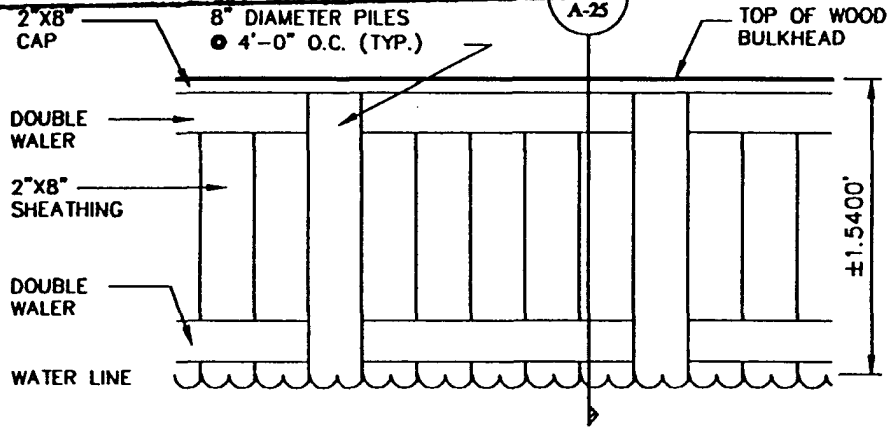






# BROWARD COUNTY

DEPARTMENT OF NATURAL RESOURCE PROTECTION  
 BIOLOGICAL RESOURCES DIVISION  
 ENVIRONMENTAL RESOURCE LICENSE  
 BROWARD COUNTY CODE 27-331 to 27-341  
 PROJECT Wesley Butter Tract D  
 REVIEWER [Signature] DATE 5-11-99  
 ATTACHED TO LICENSE NO. 896101  
 DRAWING 6 of 7 : EXPIRES AS INDICATED IN LICENSE



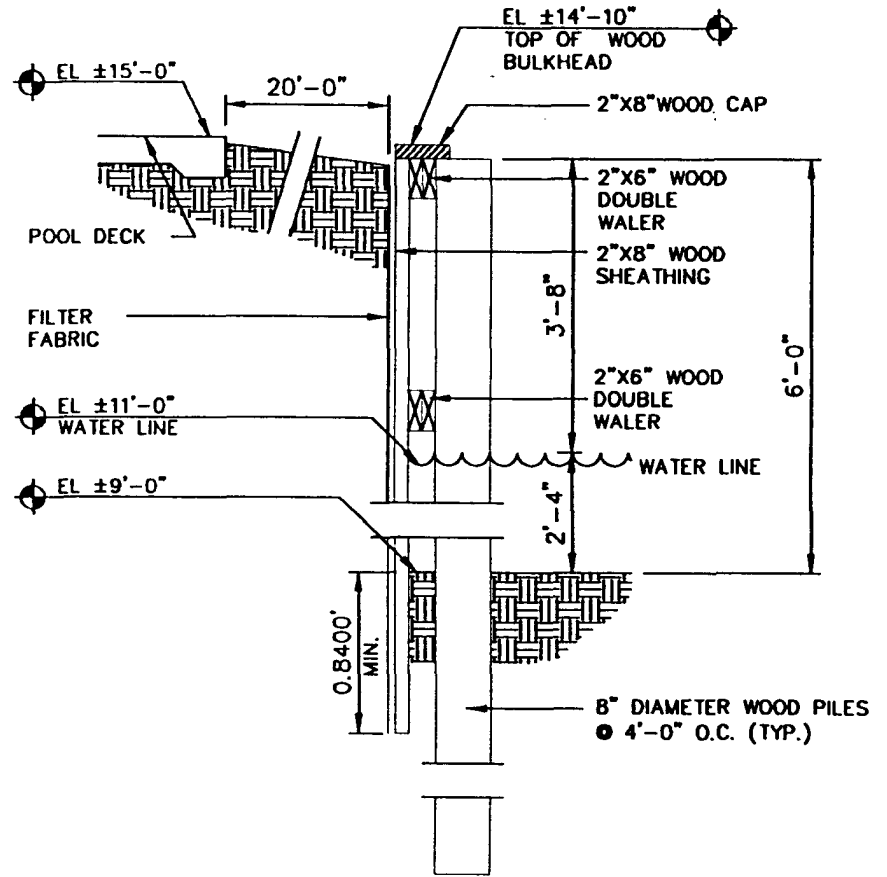
## TYP. DETAIL @ BULKHEAD

SCALE: 1/2" = 1'-0"

### NOTES:

BULKHEAD IS TO BE DESIGNED BY A REGISTERED ENGINEER (STATE OF FLORIDA) AS SELECTED BY THE GENERAL CONTRACTOR TO CONFORM TO ALL REQUIREMENTS OF THE SOUTH FLORIDA BUILDING CODE (BROWARD EDITION). SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL TO ARCHITECT, ENGINEER OF RECORD AND LOCAL AUTHORITY OF JURISDICTION AS REQUIRED.

CONCEPTUAL DETAIL PREPARED BY ROGER FRY ARCHITECT P.A.



## SECTION @ BULKHEAD

SCALE: 1/2" = 1'-0"

*Michelle B-y*  
3/12/99

THE PRESERVE AT COCONUT CREEK  
 CITY OF COCONUT CREEK  
 FOR: THE RELATED GROUP OF FLORIDA

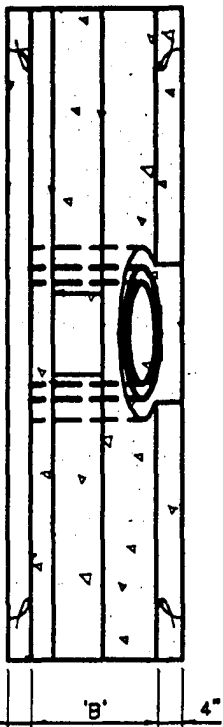
Engineers & Planners & Surveyors  
 Landscape Architects  
 Environmental Professionals  
 1000 N. W. 10th St., Suite 200  
 Ft. Lauderdale, FL 33304  
 (954) 561-1000 Fax (954) 561-1001  
 Lic. No. 13000-0001-0001

**MILES**

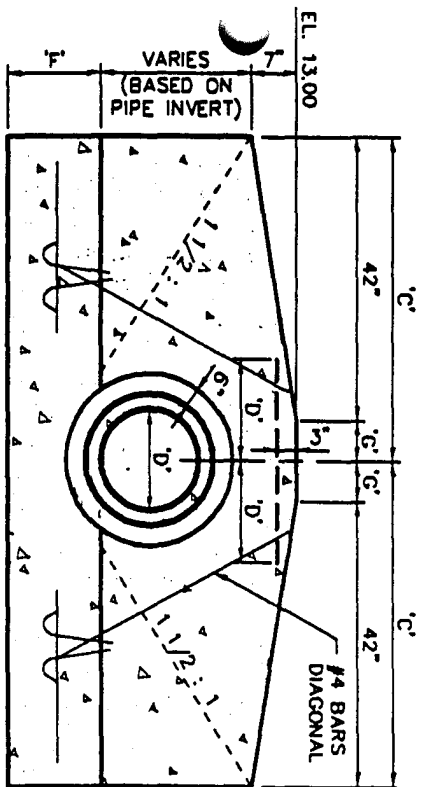
8460-13  
 EX-1

EXHIBIT

SIZE TABLE						
D	B	C	E	F	G	
15"	1'-2"	4'-0"	1'-10"	1'-2"	0'-6"	
18"	1'-3"	4'-6"	1'-11"	1'-3"	1'-0"	
24"	1'-4"	5'-6"	2'-0"	1'-4"	2'-0"	
30"	1'-6"	6'-6"	2'-2"	1'-6"	3'-0"	
48"	2'-1"	9'-6"	2'-9"	2'-0"	6'-0"	



TOP VIEW



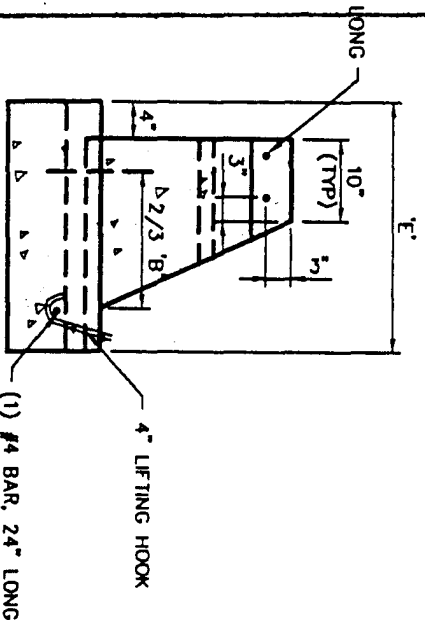
FRONT VIEW

**NOTES:**

1. IF THE CURVERT SIZE REQUIREMENTS DO NOT ALLOW AN INVERT ELEVATION ABOVE THE EXIST. BOTTOM, THEN THE EXIST. BOTTOM SHALL BE EXCAVATED.
2. GRADING AROUND ENDS OF HEADWALL SHALL BE COMPLETED IN A MANNER THAT WILL PREVENT EROSION CAUSED BY STORMWATER RUNOFF.
3. HEADWALL LOCATION TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION BY THE CONTRACTOR AND ACCEPTED BY THE ENGINEER.
4. 4000 PSI CONCRETE • 28 DAYS TYPE II CEMENT. IN THE FIELD PRIOR TO CONSTRUCTION
5. CLASS "A" FINISH ALL EDGES EXPOSED 3/4" CHAMFER EXCEPT WHERE NOTED.
6. REFER TO F.D.O.I. STD. INDEX NO. 250 FOR ADDITIONAL INFORMATION.

**BROWARD COUNTY**  
 DEPARTMENT OF NATURAL RESOURCE PROTECTION  
 BIOLOGICAL RESOURCES DIVISION  
 ENVIRONMENTAL RESOURCE LICENSE  
 BROWARD COUNTY CODE 27-331 to 27-341  
 PROJECT *Wesley Bales Tract D*  
 REVIEWER *[Signature]* DATE *5/1/11*  
 ATTACHED TO LICENSE NO. *D-96-10*  
 DRAWING *2* of *2* : EXPIRES AS INDICATED IN LICENSE

END VIEW (RIGHT)



*Michael Bales - 4*  
*3/12/11*





**Department of Natural Resource Protection**

Biological Resources Division  
218 S.W. 1st Avenue  
Fort Lauderdale, FL 33301

(954) 519-1230 • FAX (954) 519-1412

## ENVIRONMENTAL RESOURCE LICENSE

**LICENSEE:**

**SMIGIEL PARTNERS II LIMITED  
PO BOX 3768  
LANTANA, FLORIDA 33465**

**LICENSE NO.: DF96-1011**

**PROJECT: WILES/BUTLER PUD  
WETLAND FILL  
LAKE EXCAVATION  
MITIGATION**

This license is issued under the provision of Chapter 27 of the Broward County Code of Ordinances also cited as Broward County Natural Resource Protection Code hereinafter called the Code. The above-named applicant, hereinafter called licensee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications as submitted by applicant, and made a part hereof and specifically described as follows:

**Description of Work:** The project shall consist of the filling of 1.62 acres of impacted cypress wetlands with 3,318 cubic yards of clean fill, the filling of farm irrigation ditches with 107,000 cubic yards of clean fill and the excavation of 478,000 cubic yards of sand and rock to a maximum depth of -9.00 feet NGVD for the creation of 18.1 acres of stormwater lakes for residential and commercial development. Lake slopes shall be as per attached plans.

Compensatory mitigation for unavoidable impacts to 1.62 acres of impacted cypress wetlands shall be in the form of enhancement of 5.8 acres of cypress wetlands within the City of Coconut Creek's Winston Park.

**Location of Work:** The project is located south of Winston Park Boulevard between SR 7 (US 441) and Lyons Road, City of Coconut Creek, Broward County, Florida, Section 7, Township 48 South, Range 42 East.

Construction shall be in accordance with Application DER Form 17-312.900(1) and BCDNRP Addendum both dated 8-31-95, and associated information, all of which is designated as DNRP File No. 01795; plans stamped by the Department on 1-12-96 (attached); and with all General and Specific Conditions of this license.



## ENVIRONMENTAL RESOURCE LICENSE

### GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations and restrictions set forth herein are accepted and must be completed by the licensee and enforceable by the Department of Natural Resource Protection (DNRP) pursuant to Chapter 27 of Broward County Code of Ordinances. The DNRP will review this license periodically and may revoke or suspend the license, and initiate administrative and/or judicial action for any violation of the conditions by the licensee, its agents, employees, servants or representatives.
2. This license is valid only for the specific uses set forth in the license application and any deviation from the approved uses may constitute grounds for revocation, suspension and/or enforcement action by the DNRP.
3. In the event the licensee is temporarily unable to comply with any of the conditions of the license or with the Code, the licensee shall notify the DNRP within eight (8) hours or as stated in the specific section of the Code. Within three (3) working days of the event, the licensee shall submit a written report to the DNRP that describes the incident, its cause, the measures being taken to correct the problem and prevent its reoccurrence, the owner's intention toward repair, replacement, and reconstruction of destroyed facilities, and a schedule of action leading toward operation within the license conditions.
4. The issuance of this license does not convey any vested rights or exclusive privileges, or does it authorize any injury to public or private property or any invasion of personal rights, or any violations of federal, state or local laws or regulations.
5. This license must be available for inspection on licensee's premises during the entire life of the license.
6. By accepting this license, the licensee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this licensed facility or activity that are submitted to the County, may be used by the County as evidence in any enforcement proceeding arising under Chapter 27 of the Broward County Code of Ordinances, except where such use is prohibited by Section 403.111, Florida Statutes.
7. The licensee agrees to comply and shall comply with all provisions of the most current version of the Code.
8. Any new owner of a licensed facility shall apply by letter for a transfer of license within thirty (30) days after the sale or legal transfer. The transferor shall remain liable for performance in accordance with the license until the transferee applies for, and is granted a transfer of license. The transferee shall be liable for any violation of the Code that results from the transferee's activities. The transferee shall comply with the transferor's original license conditions when the transferee has failed to obtain its own license.
9. The licensee, by acceptance of this license, specifically agrees to allow access and shall allow access to the license source at reasonable times by DNRP personnel for the purposes of inspection and testing to determine compliance with this license and Chapter 27, Broward County Code of Ordinances.
10. This license does not constitute a waiver or approval of any other license, approval or regulatory requirement by this or any other governmental agency that may be required.
11. If the licensee wishes to renew the license or extend its term, the licensee shall make application sixty (60) days prior to its expiration including payment of all appropriate fees. Expired licenses are not renewable.

SPECIFIC CONDITIONS:

A. Standard

1. Notify the Department in writing a minimum of 48 hours prior to project commencement and a maximum of 48 hours after project completion. Failure to comply with this condition will result in enforcement action.
2. Notify the Department immediately in the event of any project caused environmental problem(s).
3. All project generated solid waste and/or spoil material must be disposed of in a suitable approved manner at an upland location.
4. Turbidity screens or equivalent shall be properly employed and maintained as necessary during construction activities so that turbidity levels do not exceed 29 NTU's above natural background 50 feet downstream of point of discharge. If turbidity levels exceed these limits, project activities shall immediately cease, and work shall not resume until turbidity levels drop to within these limits [62-302.530(70) FAC].
5. Only clean fill shall be placed in the wetlands and agricultural ditches being filled. Any fill material used shall be free of garbage, rubbish, refuse, asphalt, hazardous materials, organic matter such as wood, lumber, tree or tree trimmings, or other contaminants. The disposal of any putrescible or deleterious debris in any water body is prohibited.
6. Notify the Department in writing within 48 hours from completion of final grading of the lake excavations.
7. Within thirty (30) days after the final grading of the lake slopes and before receiving a Certificate of Occupancy for any structure adjacent to the licensed lake, the licensee shall submit to the Department a letter, sealed by a Florida-licensed professional engineer, certifying that the slopes have been surveyed and noting whether they are in compliance with the licensed plans.

B. Compensatory Mitigation (Area)

1. Construction and installation of the Area shall be in accordance with plans dated 1-12-96 by the Department (attached) and associated information. The Area shall be installed concurrently with licensed construction.
2. Upon completion of the Area, the following documentation shall be submitted to the Department: (a) certification of elevations in relation to design, (b) verification of actual acreage, and (c) the time-zero monitoring report. This documentation is required within 30 days of completion of the Area and prior to any Certificate of Occupancy being received for any structure on the site.
3. A viable wetland system shall be established that replicates a natural reference wetland in basic structure and function. In order to assure that the Area becomes self-sustaining, the following criteria shall be met:
  - a) A minimum of 80% coverage by desirable wetland species after a two (2) year period and demonstration of persistence for three (3) additional years.
  - b) Less than 5% coverage by invasive exotic and undesirable species. Exotic and undesirable species include, but are not limited to, melaleuca, Australian pine, Brazilian pepper, bischofia, torpedo grass, primrose-willow, and cattail.
  - c) A minimum of 80% survival of each planted species. This rate shall be maintained each quarter except where species composition, density of planted and recruitment species and overall wetland condition, growth rates and viability of the Area are of higher quality, as determined by the Department.

License No. DF96-1011  
LICENSEE: SMIGIEL PARTNERS II LIMITED

d) Hydrologic conditions and soil characteristics are in general conformity to those specified in plans.

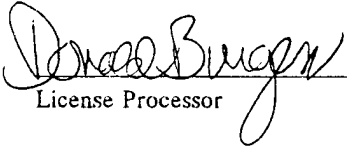
The Area shall be monitored and reports submitted quarterly for five (5) years describing in detail the condition of the Area relative to the reference wetland and the criteria listed above (B. 3.a-d).

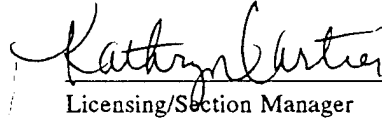
- 4. Should the Department determine that the Area is not achieving the listed criteria during some portion of the monitoring period, the licensee shall prepare plans that demonstrate clearly how the problem(s) will be corrected and submit such plans immediately to the Department for approval. Those plans shall then be implemented within thirty (30) days of the Department's written approval.
- 5. A Letter of Credit has been submitted by the Applicant. The City of Coconut Creek shall submit a Conservation Easement, in a form acceptable to the Department, the County Attorney's Office and the County Commission, within ninety (90) days of license issuance. Should either of these documents be unacceptable to the County Attorney's Office or the County Commission, a replacement document shall be submitted in a form acceptable to the Department, the County Attorney's Office and the Commission within thirty (30) days of the Department's written notification that the document was unacceptable.
- 6. Smigiel Partners II Limited, as licensee, is the responsible entity.

**C. A COPY OF THIS LICENSE SHALL BE KEPT ON SITE DURING ALL PHASES OF LICENSED CONSTRUCTION.**

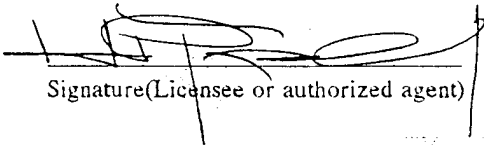
Recommended for approval by:

Reviewed by:

  
License Processor

  
Licensing/Section Manager

I have read the terms, conditions, requirements, limitations and restrictions set forth herein. I accept and agree to abide by all such provisions.

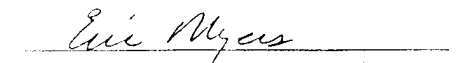
  
Signature(Licensee or authorized agent)

FEB. 9, 1996  
Date

Issued this 9th day of February, 1996

Expiration Date: February 9, 2001

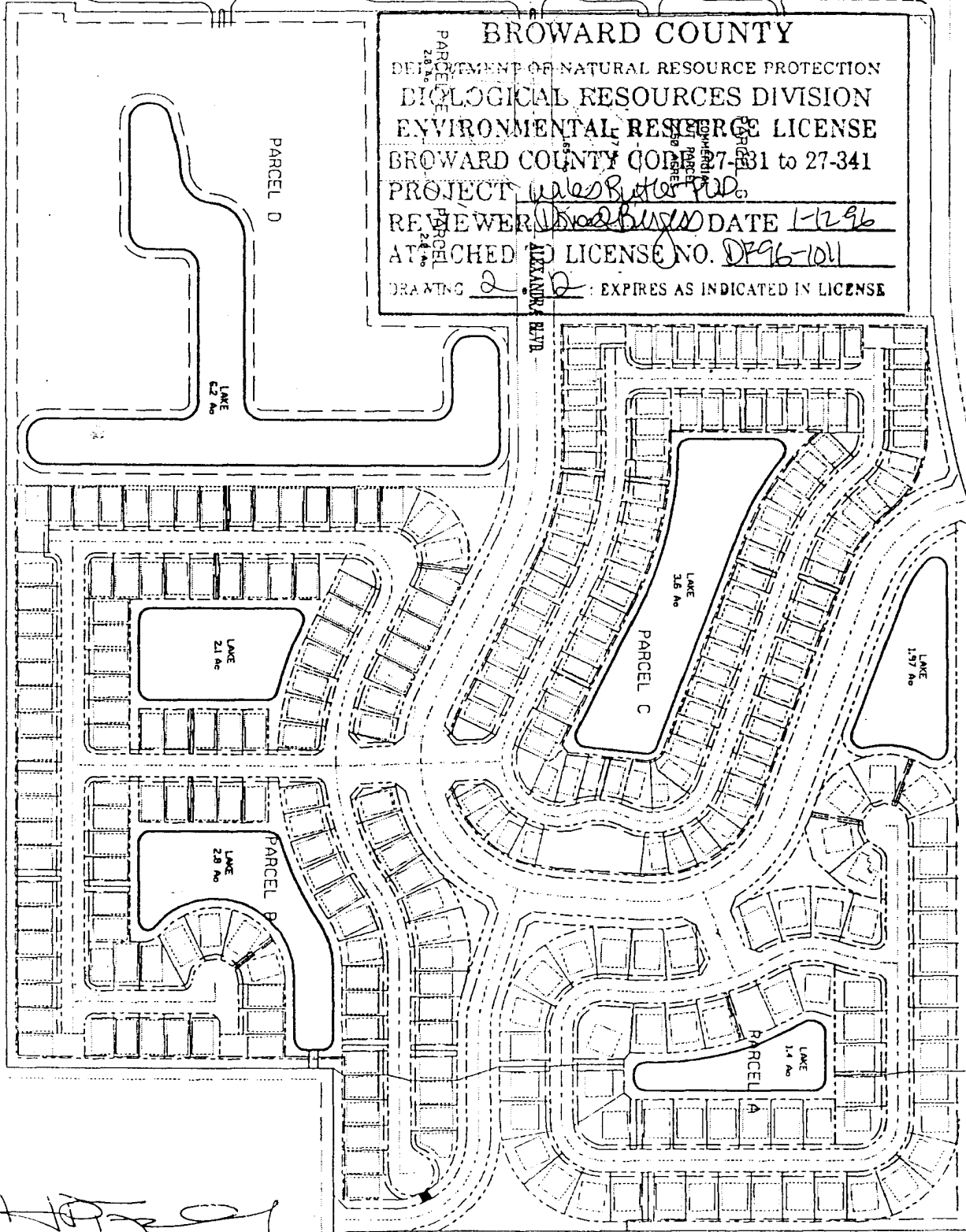
**BROWARD COUNTY DEPARTMENT OF NATURAL RESOURCE PROTECTION**

  
**ERIC MYERS, DIRECTOR**  
**BIOLOGICAL RESOURCES DIVISION**



STATE ROAD NO. 7 (US 40)

**BROWARD COUNTY**  
 DEPARTMENT OF NATURAL RESOURCE PROTECTION  
 BIOLOGICAL RESOURCES DIVISION  
 ENVIRONMENTAL RESERVE LICENSE  
 BROWARD COUNTY CODE 27-31 to 27-341  
 PROJECT WILES BUTLER PUD  
 REVIEWER David Busby DATE 1-2-96  
 ATTACHED LICENSE NO. DP96-101  
 DRAWING 2 : EXPIRES AS INDICATED IN LICENSE




*[Handwritten signature]*  
 8-31-95

WOODS  
 PRESERVE  
 AREA  
 5.801 AC.


478,000 CY EXCAVATION


 HPT CONSULTANTS INC. <small>2150 CORPORATE BLVD. N.W. SUITE 1000 DORSETT COUNTY ONE SUITE 100 BOCA RATON FL 33432 (407) 993-0900</small>	PROFESSIONAL ENGINEERING LAND DEVELOPMENT ENVIRONMENTAL GOVERNMENTAL	WILES-BUTLER PUD LAKE EXPANSION PLAN	JOB NO. DATE: 08/31/95
	SET 0	REVISION:	DATE: 08/31/95

3127

SECONDARY IRRIGATION DITCH (TYP)   
TO BE FILLED

**BROWARD COUNTY**  
 DEPARTMENT OF NATURAL RESOURCE PROTECTION  
 BIOLOGICAL RESOURCES DIVISION  
 ENVIRONMENTAL RESOURCE LICENSE  
 BROWARD COUNTY CODE 27-331 to 27-341  
 PROJECT Wiles Butler PUD  
 REVIEWER Donald B. [unclear] DATE 1/22/96  
 ATTACHED TO LICENSE NO. DF 96-1011  
 DRAWING 3 of 10: EXPIRES AS INDICATED IN LICENSE

PRIMARY   
IRRIGATIONS  
DITCH TO BE  
FILLED

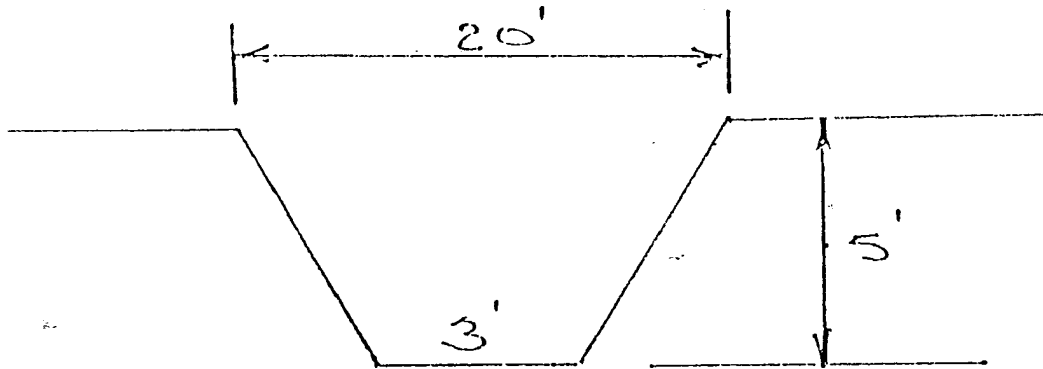
  
8-31-95

WILES-BUTLER PUD



PROFESSIONAL ENGINEERING  
Land Development • Environmental  
Governmental

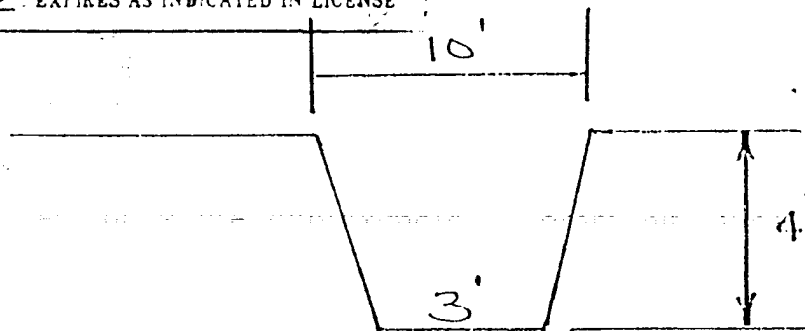
2295 Corporate Blvd, N.W. • Executive Court One, Suite 215  
Boca Raton, FL 33431 • Tel 407-998-0955 • Fax 407-211-4934



PRIMARY IRRIGATION DITCH  
(TYP.)

**BROWARD COUNTY**  
DEPARTMENT OF NATURAL RESOURCE PROTECTION  
BIOLOGICAL RESOURCES DIVISION  
ENVIRONMENTAL RESOURCE LICENSE  
BROWARD COUNTY CODE 27-331 to 27-341  
PROJECT Wiles Butler PUD  
REVIEWER Donald Brown DATE 1-12-96  
ATTACHED TO LICENSE NO. DP96-101  
DRAWING 4 of 12 : EXPIRES AS INDICATED IN LICENSE

*[Handwritten signature]*  
8-31-95



SECONDARY IRRIGATION DITCH  
(TYP.)

TOTAL FILL REQ'D = 107,000<sup>±</sup> CY

WILES-BUTLER PUD



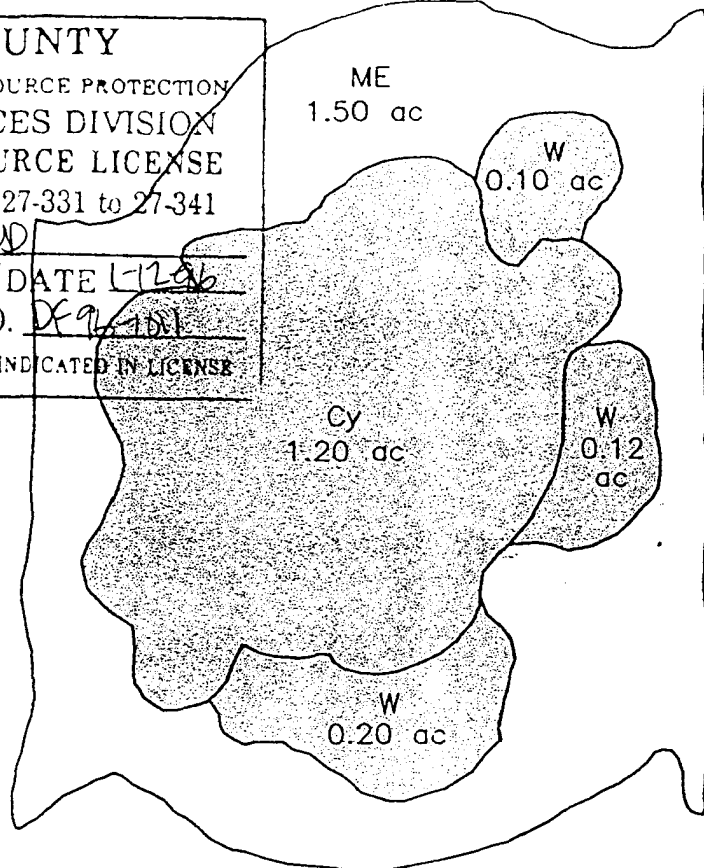
PROFESSIONAL ENGINEERING  
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Governmental

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Boca Raton, FL 33431 • Tel 407-998-0955 • Fax 407-211-1911



**BROWARD COUNTY**  
 DEPARTMENT OF NATURAL RESOURCE PROTECTION  
 BIOLOGICAL RESOURCES DIVISION  
 ENVIRONMENTAL RESOURCE LICENSE  
 BROWARD COUNTY CODE 27-331 to 27-341  
 PROJECT Wiles Butler PUD  
 REVIEWER Donna Bugen DATE 1/2/96  
 ATTACHED TO LICENSE NO. DE 96-101  
 DRAWING 5 of 12 : EXPIRES AS INDICATED IN LICENSE


STATE ROAD 7



AGRICULTURAL LAND

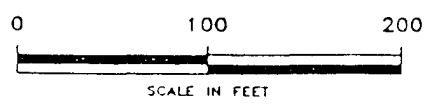
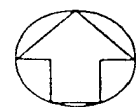
**LEGEND**


Cy	Cypress	1.20 ac
ME	Mixed Exotics (includes wild taro, Brazilian pepper, panicum grass, castor bean)	1.50 ac
W	Willow	0.42 ac
<b>TOTAL</b>		<b>3.12 ac</b>

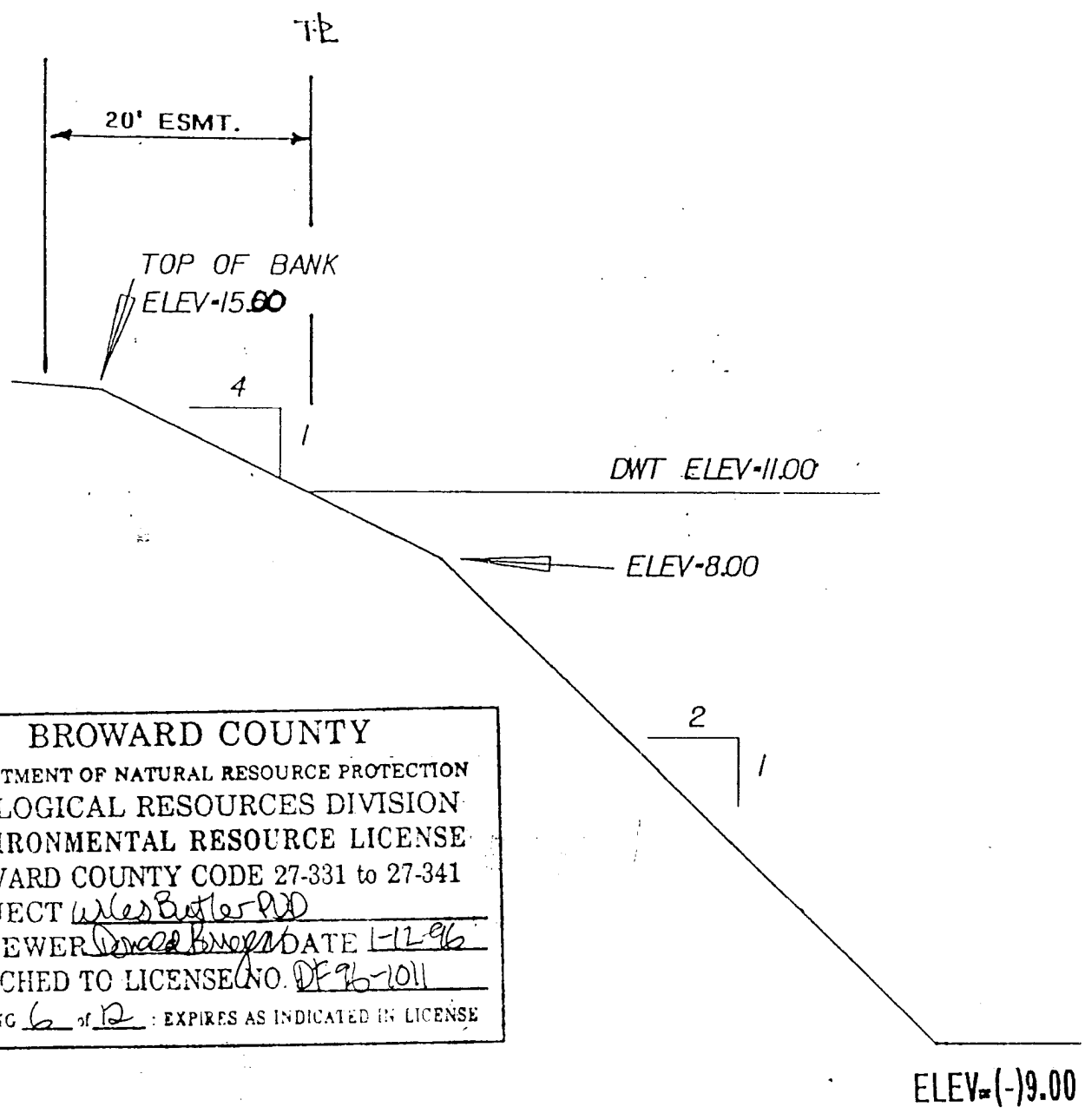
 Jurisdictional Area

**NOTE**

Acreages are approximate. Community type boundaries based upon photo interpretation of Broward County 26 January 1995 aerial photo and site inspections.



IMPACT SITE COMMUNITY TYPES		
WILES-BUTLER PUD		
SCALE: AS SHOWN	APPROVED BY: <i>Jera S. Mier</i>	DRAWN BY: JEJ
DATE: 10/4/95		FILE: 1512COMA.DWG
 <b>CZR</b> INCORPORATED ENVIRONMENTAL CONSULTANTS	140 INTRACOASTAL POINTE DRIVE SUITE 301 JUPITER, FLORIDA 33477-5064 TEL 407/747-7455 FAX 407/747-7576	CP#1512.01
		FIGURE 2



**BROWARD COUNTY**  
DEPARTMENT OF NATURAL RESOURCE PROTECTION  
BIOLOGICAL RESOURCES DIVISION  
ENVIRONMENTAL RESOURCE LICENSE  
BROWARD COUNTY CODE 27-331 to 27-341  
PROJECT Wiles Butler PUD  
REVIEWER Dorcas Knepp DATE 1-12-96  
ATTACHED TO LICENSE NO. DF 96-1011  
DRAWING 6 of 12 : EXPIRES AS INDICATED BY LICENSE

TYPICAL LAKE SECTION

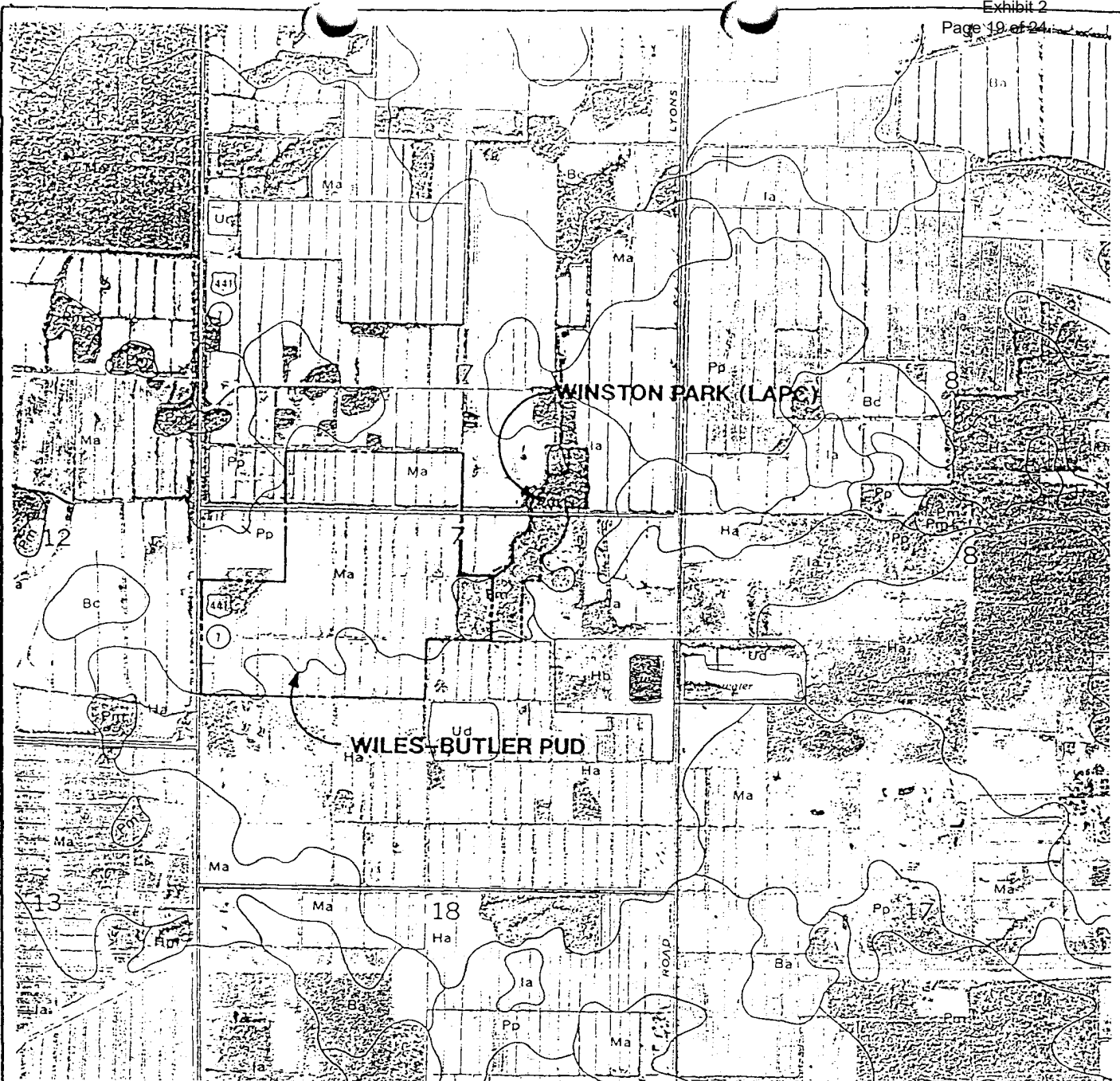
*[Handwritten Signature]*  
8-31-95

WILES-BUTLER PUD



PROFESSIONAL ENGINEERING  
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Governmental

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Boca Raton, FL 33431 • Tel 407-998-0955 • Fax 407-241-4934



DEPARTMENT OF NATURAL RESOURCE PROTECTION  
 BIOLOGICAL RESOURCES DIVISION  
 ENVIRONMENTAL RESOURCE LICENSE  
 BROWARD COUNTY CODE 27-331 to 27-341

SCALE: 1:20000

SOIL SURVEY

WILES-BUTLER PUD

PROJECT *Wiles Butler PUD*  
 REVIEWER *Veronica B. Moore* *11-96*

APPROVED TO LICENSE NO. *DF 96-10*

SCALE: AS SHOWN

APPROVED BY: *AEW*

DRAWN BY: JEJ

PREPARED BY: *Soil Survey of Broward County, Florida, (USDA)*

DATE: 10/3/95

FILE: 1512SOIL.DWG

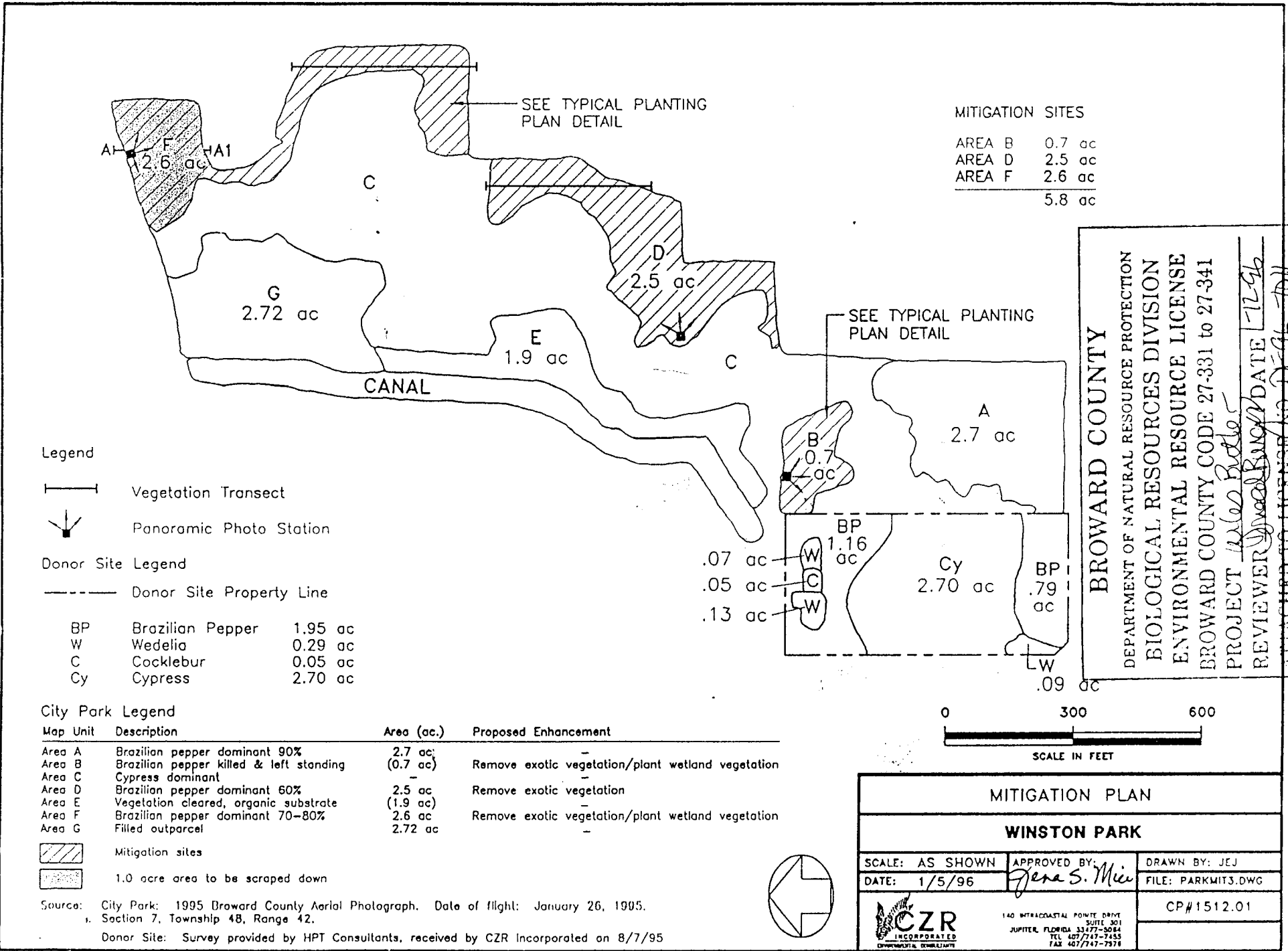
Soil Conservation Service, July 1976)



140 INTRACOASTAL POINTE DRIVE  
 SUITE 301  
 JUPITER, FLORIDA 33477-5064  
 TEL 407/747-7455  
 FAX 407/747-7576

CP#1512.01

FIGURE 3



**BROWARD COUNTY**  
DEPARTMENT OF NATURAL RESOURCE PROTECTION  
BIOLOGICAL RESOURCES DIVISION  
ENVIRONMENTAL RESOURCE LICENSE  
BROWARD COUNTY CODE 27-331 to 27-341  
PROJECT *Walter Butler*  
REVIEWER *Walter Butler* DATE *12-96*  
ATTACHED TO LICENSE NO. *D-96-101*

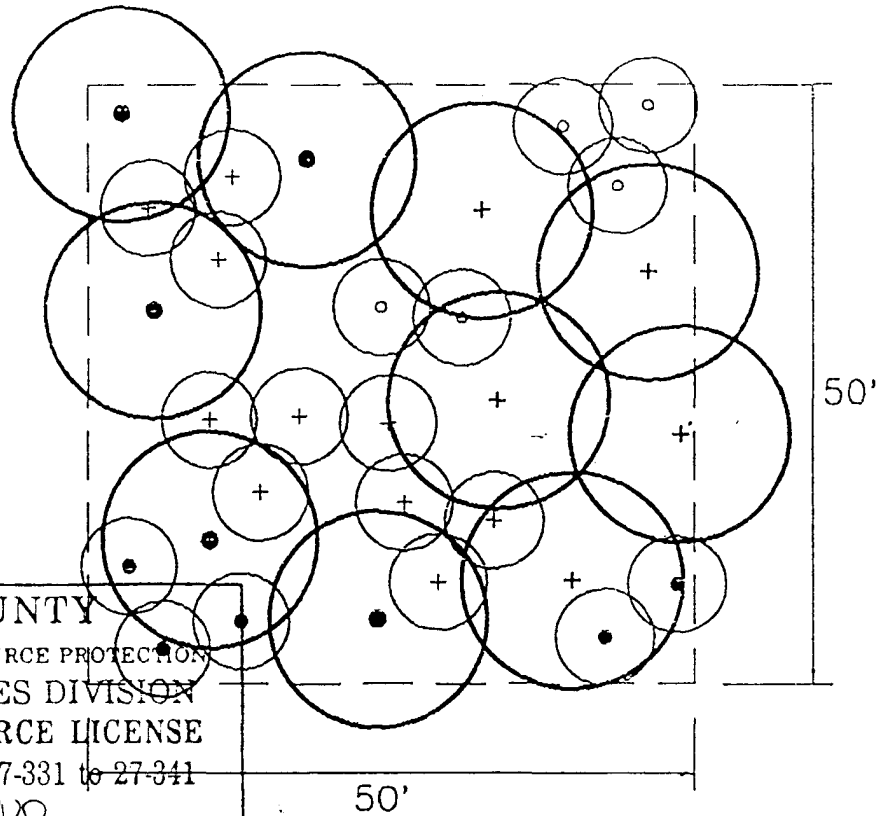
**MITIGATION PLAN**

**WINSTON PARK**

SCALE: AS SHOWN	APPROVED BY: <i>Jana S. Mier</i>	DRAWN BY: JEJ
DATE: 1/5/96		FILE: PARKMITS.DWG
		CP#1512.01

140 METACASTAL POINT DRIVE SUITE 301  
JUPITER, FLORIDA 33477-3084  
TEL 407/747-7455  
FAX 407/747-7278

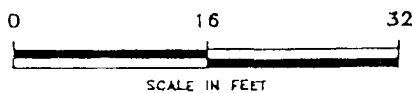
Source: City Park: 1995 Broward County Aerial Photograph. Date of flight: January 26, 1995.  
Section 7, Township 48, Range 42.  
Donor Site: Survey provided by HPT Consultants, received by CZR Incorporated on 8/7/95



**BROWARD COUNTY**

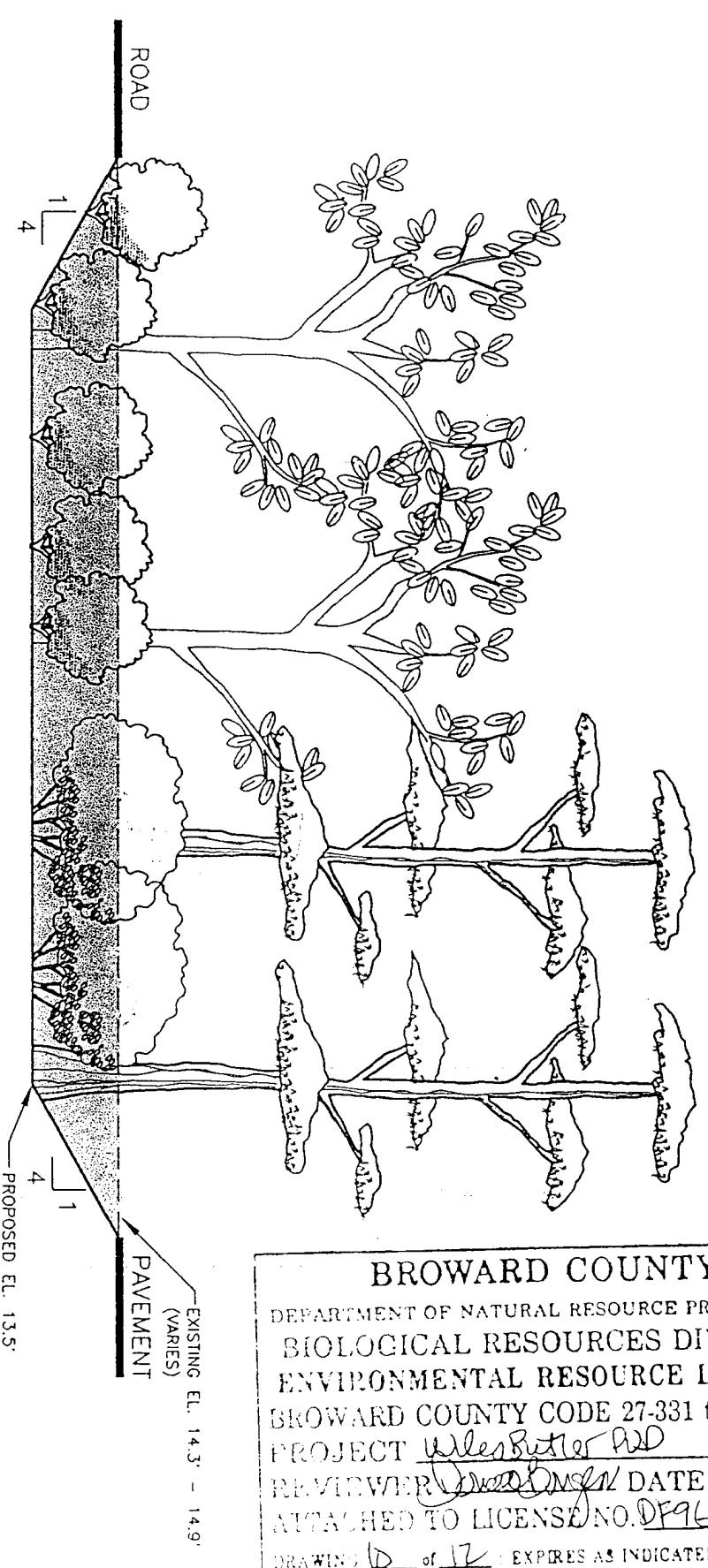
DEPARTMENT OF NATURAL RESOURCE PROTECTION  
 BIOLOGICAL RESOURCES DIVISION  
 ENVIRONMENTAL RESOURCE LICENSE  
 BROWARD COUNTY CODE 27-331 to 27-341  
 PROJECT Wiles Butler PUD  
 REVIEWER Malcolm DATE 1-12-96  
 ATTACHED TO LICENSE NO. DP96-1011  
 DRAWING 9 of 12 : EXPIRES AS INDICATED IN LICENSE

PLANT SYMBOL	SCIENTIFIC NAME	COMMON NAME	TOTAL NUMBER OF PLANTS - AREA B	TOTAL NUMBER OF PLANTS - AREA F
	<i>Chrysobalanus icaco</i>	cocoplum	60	227
	<i>Taxodium distichum</i>	cypress	60	227
	<i>Psychotria nervosa</i>	wild coffee	120	455
	<i>Annona glabra</i>	pond apple	60	227
	<i>Myrsine guianensis</i>	myrsine	60	227



TYPICAL PLANTING PLAN DETAIL		
WINSTON PARK		
SCALE: AS SHOWN	APPROVED BY: <u>Jana S. Mier</u>	DRAWN BY: JEJ
DATE: 1/5/96		FILE: TYPPLANT.DWG
		CP# 1512.01
140 INTRACASTAL PONTE DRIVE SUITE 301 JUPITER, FLORIDA 33477-3088 TEL 407/747-7430 FAX 407/747-7578		

A



AREA TO BE SCRAPED DOWN

**BROWARD COUNTY**  
 DEPARTMENT OF NATURAL RESOURCE PROTECTION  
 BIOLOGICAL RESOURCES DIVISION  
 ENVIRONMENTAL RESOURCE LICENSE  
 BROWARD COUNTY CODE 27-331 to 27-341  
 PROJECT *Wiles Butler RD*  
 REVIEWER *[Signature]* DATE *1-12-96*  
 ATTACHED TO LICENSE NO. *DF96-101*  
 DRAWING *10* of *12* - EXPIRES AS INDICATED IN LICENSE

TYPICAL CROSS SECTION A-A1

WINSTON PARK

SCALE: N.T.S.

DATE: 1/5/96

APPROVED BY: *[Signature]*

DRAWN BY: JEJ

FILE: XSECA-A1.DWG

CP#1512.01



140 INTRACOASTAL POINTE DRIVE  
 SUITE 301  
 JUPITER, FLORIDA 33477-5084  
 TEL 407/741-7433  
 FAX 407/741-7578

BROWARD COUNTY

DEPARTMENT OF NATURAL RESOURCE PROTECTION  
BIOLOGICAL RESOURCES DIVISION

WILES - BUTLER PUB. ENVIRONMENTAL RESOURCE LICENSE  
MITIGATION - MAINTENANCE & MONITORING PLAN COUNTY CODE 27-331 to 27-341

PROJECT Wiles Butler PUP  
REVIEWER Donald Buxen DATE 1-12-96

ATTACHED TO LICENSE NO. DF96-1011

plan for the Wiles Butler PUP located south of Winston Park Boulevard and east

I. INTRODUCTION

This statement summarizes the proposed mitigation Development located south of the Sawgrass Expressway, just of U.S. 441, Section 7, Township 48 South, Range 42 East, Coconut Creek, Broward County, Florida. A plan for success monitoring, reporting, and maintenance is provided.

II. WETLAND MITIGATION

The current development plan proposes to fill approximately 1.62 acres of severely altered cypress/willow wetland habitat, surrounded by mixed exotics and historic agricultural activity. The mitigation plan consists of the restoration/enhancement in a ±20 acre historic cypress swamp by removal (cut and herbicide stump) of Brazilian pepper and guava in 2.5 acres and by removal of exotics and planting of wetland vegetation in 3.3 acres within the adjacent City of Coconut Creek passive park. The following summarizes the mitigation proposal.

A. Exotic Species Removal

The Applicant agrees to remove exotic species (primarily Brazilian pepper and guava) from 5.8 acres of exotic dominated areas of the City park as shown on the attached Mitigation Plan drawings. The Applicant agrees to maintain these areas free of exotic vegetation (maximum five percent coverage) to ensure growth of native species.

B. Wetland Restoration

The Applicant agrees to plant wetland vegetation in addition to removing exotic vegetation to restore quality habitat within Areas B and F as shown on the Mitigation Plan totalling 3.3 acres. Mitigation in Area F will include the removal of approximately 2,500 cubic yards of excess fill from the northern ±1.0 acre portion of the site prior to planting.

III. SUGGESTED SPECIES SELECTION

The following plants will be installed within Areas B and F on 10-foot centers; except for wild coffee which will be installed on 5-foot centers:

		#
Cypress	<i>Taxodium distichum</i>	287
Pond apple	<i>Annona glabra</i>	287
Cocoplum	<i>Chrysobalanus icaco</i>	287
Myrsine	<i>Myrsine gulanensis</i>	287
Wild coffee	<i>Psychotria nervosa</i>	575

Plants will be obtained from a nursery within the general vicinity of the project site. Trees will be three gallon in size. Planting holes will be sized to twice the size of the root ball. Staking may be necessary for single stalk plants which show a tendency to lean. Staking and wrapping shall not bind, cut, or tear plants. No pruning will be done to plants unless damage or breakage occurs during transporting or installation. Distribution or arrangement of the various species will reflect a natural system.

## IV. MAINTENANCE &amp; MONITORING

A. Maintenance

Maintenance activities within each of the mitigation areas will be conducted on a quarterly basis (at least every three months) for a period of five years after completion of initial exotic removal and wetland planting. The goal of maintenance activities will be to assure at least 80 percent coverage or appropriate survival rate for planted and recruited vegetation throughout the five year monitoring period. An evaluation of maintenance success will be discussed in each quarterly mitigation success monitoring report, and recommended and/or planned maintenance activities will be listed in each report.

Routine maintenance will include eradicating and removing exotic plants such as Brazilian pepper, melaleuca, guava, and Australian pine, as well as any other exotic or nuisance species that colonize the mitigation areas. The maintenance plan includes physical and chemical components to eradicate and control exotic and nuisance vegetation. Hand-pulling of seedlings or plants is the preferred method. Where hand-pulling is not feasible, vegetation will be cut, and herbicides approved for use in aquatic situations will be applied to prevent regrowth. Selective foliar or basal applications of herbicide may be used to kill exotic or nuisance vegetation prior to removal. All cut or pulled vegetation will be removed from the mitigation areas. Basic tree care including pruning, fertilizing, and staking will be carried out to promote tree health and growth of planted species.

B. Monitoring

After initial removal of exotics and planting in the mitigation areas, representative transects will be established for monitoring consistency. In order to provide a qualitative sampling, vegetation will be described along these transects quarterly for a period of five years and included in quarterly monitoring reports submitted to the Department. Quarterly monitoring will entail growth evaluation of native vegetation, damage or death rate appraisals, percent cover by exotic vegetation, and wildlife evaluations as well as a summary of the overall success of the mitigation and discussion of recommended corrective actions (if necessary). Panoramic photographs will be taken from a fixed point along selected transects to document condition of the wetlands over time. Rainfall from the nearest weather station and water levels from a piezometer installed at the mitigation site will also be collected.

A time-zero report will be completed and submitted to the agencies within one month following the removal of exotics and planting in the mitigation areas. The elements of the time-zero report will document the acreages, elevations, species planted, densities planted, and the date work was completed.

<b>BROWARD COUNTY</b>	
DEPARTMENT OF NATURAL RESOURCE PROTECTION	
BIOLOGICAL RESOURCES DIVISION	
ENVIRONMENTAL RESOURCE LICENSE	
BROWARD COUNTY CODE 27-331 to 27-341	
PROJECT	<u>Wales Butte PUD</u>
REVIEWER	<u>Maal Butte PUD</u>
DATE	<u>1-12-96</u>
ATTACHED TO LICENSE NO.	<u>DF 96-1011</u>
DRAWING <u>12</u> of <u>12</u> - EXPIRES AS INDICATED IN LICENSE	