

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

TRANSFER AND MODIFICATION OF SURFACE WATER MANAGEMENT PERMIT NO. 43-00069-S

DATE ISSUED: January 7, 1988

ISSUED TO: Evergreen Property Owners Association, Inc. (Evergreen Club - Mid Rivers) c/o W. C. Neilly, Jr. 4162 SW Bimini Circle, North Palm City, Florida 33490

POSTED Permit Number Book Inventory Book 19 Canal Quadrangles 17000 AS Date 3-10-88 Signed KRUPPIS

LOCATION: MARTIN COUNTY, SEC 1,2,3 TWP 38S RGE 40E

ORIGINAL PERMIT AUTHORIZATION:

CONSTRUCTION AND OPERATION OF A WATER MANAGEMENT SYSTEM SERVING 500 ACRES OF RESIDENTIAL LANDS DISCHARGING VIA P.C. #2 INTO C-23.

APPROVED MODIFICATION:

EXCAVATION OF 7.2 ACRES OF LAKE AREA, IMPROVEMENTS TO GOLF COURSE AND LOT SWALE SYSTEM AND REVISE THE EXISTING CONTROL STRUCTURES DISCHARGING INTO C-23.

(App. No. 10237-E)

THIS PERMIT MODIFICATION IS APPROVED PURSUANT TO A REQUEST DATED Oct. 23, 1987. PERMITEE AGREES TO HOLD AND SAVE THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT AND ITS SUCCESSORS HARMLESS FROM ANY AND ALL DAMAGES, CLAIMS, OR LIABILITIES WHICH MAY ARISE BY REASON OF THE CONSTRUCTION, OPERATION, MAINTENANCE, OR USE OF ANY WORK OR STRUCTURE INVOLVED IN THE PERMIT. THE ORIGINAL PERMIT, INCLUDING ALL PLANS AND SPECIFICATIONS ATTACHED THERETO, AS ADDRESSED BY THE STAFF REPORT AND THOSE ADDRESSED BY THE MODIFICATION STAFF REPORT, ARE BY REFERENCE MADE A PART HEREOF.

ALL SPECIFICATIONS, SPECIAL AND LIMITING CONDITIONS ATTENDANT TO THE ORIGINAL PERMIT, UNLESS SPECIFICALLY REINCEDED BY THIS OR PREVIOUS MODIFICATIONS, REMAIN IN EFFECT.

SPECIAL CONDITIONS: SEE SHEETS 2 AND 3 OF 4 - 11 PROJECT SPECIAL CONDITIONS (INCLUDING TABLE 1). SEE SHEET 4 OF 4 - 12 LIMITING CONDITIONS.

ORIGINAL PERMIT ISSUED: August 11, 1977.

PERMIT MODIFICATION APPROVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT

FILED WITH THE CLERK OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT

ORIGINAL SIGNED BY: JAMES T. SHOW, P.E.

ON 1-11-88 Original signed by: Vern Kaiser DEPUTY CLERK

JAMES T. SHOW, P.E., DIRECTOR WATER MANAGEMENT DIVISION RESOURCE CONTROL DEPARTMENT

SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
P.O. BOX "V"  
WEST PALM BEACH, FL. 33402  
TELEPHONE: (305) 686-8800 TOLL FREE: 1-800-432-2045

(FOR USE BY SFWMD PERSONNEL ONLY) DATE REC'D:

43-00069-S  
APPL. NO.: 10237-E

APPLICATION TO SOUTH FLORIDA WATER MANAGEMENT DISTRICT FOR A PERMIT FOR:

- ( ) WATER USE  
( X ) SURFACE WATER MANAGEMENT (DRAINAGE) ( [ ] CONCEPTUAL APPROVAL )  
( ) UTILIZATION OF DISTRICT WORKS  
( X ) MODIFICATION OF EXISTING PERMIT NUMBER: 43-00069-S

OWNER'S NAME: Evergreen Property Owners Association, Inc.

ADDRESS: c/o W.C. Neilly Jr., 4162 SW Bimini Circle N.

CITY: Palm City STATE: Florida ZIP: 33490 PHONE: 964-4347

DEVELOPER'S NAME: N/A

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_ PHONE: \_\_\_\_\_

PROJECT ENGINEER: Lindahl, Browning, Ferrari & Hellstrom, Inc.

ADDRESS: P.O. Box 727

CITY: Jupiter STATE: Florida ZIP: 33468 PHONE: 746-9248

PROJECT NAME: Evergreen Club (Midrivers)

LOCATION: Martin 1,2,3 38 40 E  
CITY COUNTY SECTION(S) TOWNSHIP(S) RANGE(S)

PURPOSE: Residential ZONING: PUD  
(RESIDENTIAL, AGRICUL., PUB. WTR. SUPPLY, ETC.)

PROJECT SIZE: 500 ACRES

PROJECT IS: ( ) PROPOSED ( X ) EXISTING ( X ) TO BE MODIFIED

IF THIS APPLICATION IS FOR WATER USE, WHAT IS THE SOURCE OF WATER? \_\_\_\_\_

IF THIS APPLICATION IS FOR DRAINAGE, WHERE WILL THE WATER DISCHARGE? \_\_\_\_\_  
C-23

IF THIS IS A REQUEST TO MODIFY AN EXISTING PERMIT, DESCRIBE THE REQUESTED CHANGES: \_\_\_\_\_  
Request improvements to the WMS

IF THIS APPLICATION INCLUDES USE OF DISTRICT WORKS, DESCRIBE THE USE: \_\_\_\_\_

(CULVERT, BOAT DOCK, FENCE, BEAUTIFICATION, ETC. NOTE! INCLUDE CANAL NAME)

NOTE! IN ALL CASES AN ACCURATE LOCATION MAP WITH THE PROJECT BOUNDARIES CLEARLY SHOWN MUST BE SUBMITTED. ALSO, IF THIS IS A PROPOSED OR EXPANDED PROJECT SUBMIT A CURRENT AERIAL PHOTOGRAPH SHOWING THE PROJECT BOUNDARIES.

RULES 40E-2.101, 40E-4.101, and 40E-6.101 F.A.C. SPECIFY DATA REQUIREMENTS TO CONSTITUTE A COMPLETE PERMIT APPLICATION. A LIST OF THE REFERENCED RULES IS PROVIDED ON THE BACK OF THIS FORM. ANY NECESSARY CHECKLIST MAY BE OBTAINED FROM THE DISTRICT AT THE ABOVE ADDRESS.

DATE: 10/23/87  
OWNER'S SIGNATURE (IF NOT THE OWNER, CERTIFY BELOW)

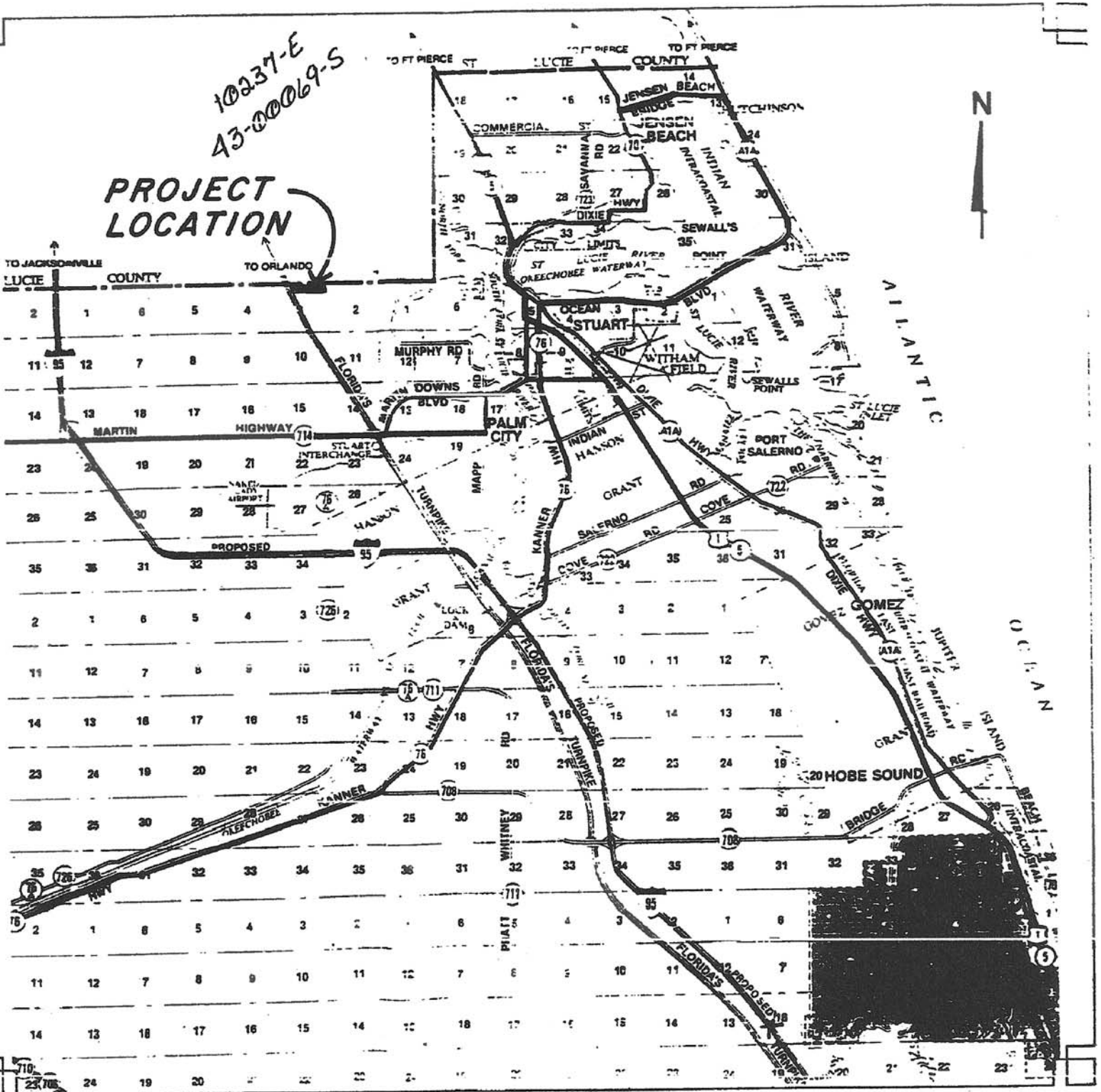
I HEREBY CERTIFY THAT I AM AN AUTHORIZED AGENT OF THE OWNER:

[Signature] TITLE: ENGINEER

NOTE! MANY PROJECTS ALSO REQUIRE APPROVAL BY OTHER STATE AND FEDERAL AGENCIES. SFWMD INFORMS SOME AGENCIES OF PERMIT APPLICATIONS RECEIVED BUT THE RESPONSIBILITY FOR REQUESTING APPROVALS RESTS WITH THE OWNER.

10237-E  
43-00069-S

PROJECT  
LOCATION



VICINITY MAP SCANNED

SPECIAL CONDITIONS

1. MINIMUM BUILDING FLOOR ELEVATION: SEE TABLE 1
2. MINIMUM ROAD CROWN ELEVATION: SEE TABLE 1
3. DISCHARGE FACILITIES:

STRUCTURE NO. 1: 1-5.6' WIDE WEIR WITH A CREST AT ELEVATION 5.6' NGVD AND 1-9" DIAMETER ORIFICE WITH AN INVERT AT ELEVATION 3.0' NGVD.  
STRUCTURE NO. 2: 1-3.6' WIDE WEIR WITH A CREST AT ELEVATION 5.6' NGVD AND 1-3" DIAMETER ORIFICE WITH AN INVERT AT ELEVATION 3.0' NGVD.

RECEIVING WATER: C-23 (BOTH STRUCTURES)

CONTROL ELEVATION: 3.0 FEET NGVD (ENTIRE PROJECT)

4. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY EROSION OR SHOALING PROBLEMS THAT RESULT FROM THE CONSTRUCTION OR OPERATION OF THE SURFACE WATER MANAGEMENT SYSTEM.
5. MEASURES SHALL BE TAKEN DURING CONSTRUCTION TO INSURE THAT SEDIMENTATION AND/OR TURBIDITY PROBLEMS ARE NOT CREATED IN THE RECEIVING WATER.
6. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY WATER QUALITY PROBLEMS THAT RESULT FROM THE CONSTRUCTION OR OPERATION OF THE SURFACE WATER MANAGEMENT SYSTEM.
7. THE DISTRICT RESERVES THE RIGHT TO REQUIRE THAT WATER QUALITY TREATMENT METHODS BE INCORPORATED INTO THE DRAINAGE SYSTEM IF SUCH MEASURES ARE SHOWN TO BE NECESSARY.
8. UPON COMPLETION OF THE IMPROVEMENTS TO THE DRAINAGE SYSTEM, OPERATION OF THE SURFACE WATER MANAGEMENT SYSTEM SHALL BE THE RESPONSIBILITY OF THE EVERGREEN CLUB, INC. AND THE EVERGREEN PROPERTY OWNERS ASSOCIATION, INC.
9. LAKE SIDE SLOPES SHALL BE 4:1 (HORIZONTAL:VERTICAL) TO A DEPTH OF TWO FEET BELOW THE CONTROL ELEVATION. SIDE SLOPES SHALL BE NURTURED OR PLANTED FROM 2 FEET BELOW TO 1 FOOT ABOVE CONTROL ELEVATION TO INSURE VEGETATIVE GROWTH.
10. PRIOR TO THE INITIATION OF ANY WITHDRAWAL OF WATER (IRRIGATION, DEWATERING, PUBLIC WATER SUPPLY, ETC.), IT WILL BE NECESSARY TO APPLY FOR A WATER USE PERMIT. THE PERMITTEE IS CAUTIONED THAT A MINIMUM OF 90 DAYS IS REQUIRED FOR CONSIDERATION OF THE WATER USE PERMIT APPLICATION. THE PERMITTEE IS CAUTIONED THAT THE ISSUANCE OF A SURFACE WATER MANAGEMENT PERMIT SHALL NOT BE CONSTRUED TO BE A GUARANTEE THAT WATER WILL BE AVAILABLE.
11. USE OF THE C-23 RIGHT OF WAY MUST BE APPROVED BY THIS AGENCY.

TABLE 1

<u>Sub-Drainage Area</u>	<u>Average Grade Elevation</u>	<u>Minimum Road Elevation 10-Year Design Water Level</u>	<u>Minimum Finished Floor</u>
I	17.5	16.22	19.0
II	17.0	15.57	18.5
III	16.5	14.75	18.0
IVA	16.0	14.42	17.5
IVB	18.0	14.42	19.5
V	16.0	14.62	17.5
VI	15.5	12.39	17.0
VII	14.5	12.58	16.0
VIII	14.0	10.73	15.5
IX	13.5	9.88	15.0
X	12.0	8.55	13.5

NOTE: All elevations refer to feet, NGVD

**LIMITING CONDITIONS**

1. THE PERMITTEE SHALL PROSECUTE THE WORK AUTHORIZED IN A MANNER SO AS TO MINIMIZE ANY ADVERSE IMPACT OF THE WORKS ON FISH, WILDLIFE, NATURAL ENVIRONMENTAL VALUES, AND WATER QUALITY. THE PERMITTEE SHALL INSTITUTE NECESSARY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING FULL COMPACTION OF ANY FILL MATERIAL PLACED AROUND NEWLY INSTALLED STRUCTURES, TO REDUCE EROSION, TURBIDITY, NUTRIENT LOADING AND SEDIMENTATION IN THE RECEIVING WATERS.
2. WATER QUALITY DATA FOR THE WATER DISCHARGED FROM THE PERMITTEE'S PROPERTY OR INTO SURFACE WATERS OF THE STATE SHALL BE SUBMITTED TO THE DISTRICT AS REQUIRED. PARAMETERS TO BE MONITORED MAY INCLUDE THOSE LISTED IN CHAPTER 17-3. IF WATER QUALITY DATA IS REQUIRED, THE PERMITTEE SHALL PROVIDE DATA AS REQUIRED, ON VOLUMES OF WATER DISCHARGED, INCLUDING TOTAL VOLUME DISCHARGED DURING THE DAYS OF SAMPLING AND TOTAL MONTHLY DISCHARGES FROM THE PROPERTY OR INTO SURFACE WATERS OF THE STATE.
3. THE PERMITTEE SHALL COMPLY WITH ALL APPLICABLE LOCAL SUBDIVISION REGULATIONS AND OTHER LOCAL REQUIREMENTS. IN ADDITION THE PERMITTEE SHALL OBTAIN ALL NECESSARY FEDERAL, STATE, LOCAL AND SPECIAL DISTRICT AUTHORIZATIONS PRIOR TO THE START OF ANY CONSTRUCTION OR ALTERATION OF WORKS AUTHORIZED BY THIS PERMIT.
4. THE OPERATION PHASE OF THIS PERMIT SHALL NOT BECOME EFFECTIVE UNTIL A FLORIDA REGISTERED PROFESSIONAL ENGINEER CERTIFIES THAT ALL FACILITIES HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE DESIGN APPROVED BY THE DISTRICT. WITHIN 30 DAYS AFTER COMPLETION OF CONSTRUCTION OF THE SURFACE WATER MANAGEMENT SYSTEM, THE PERMITTEE SHALL SUBMIT THE CERTIFICATION AND NOTIFY THE DISTRICT THAT THE FACILITIES ARE READY FOR INSPECTION AND APPROVAL. UPON APPROVAL OF THE COMPLETED SURFACE WATER MANAGEMENT SYSTEM, THE PERMITTEE SHALL REQUEST TRANSFER OF THE PERMIT TO THE RESPONSIBLE ENTITY APPROVED BY THE DISTRICT.
5. ALL ROADS SHALL BE SET AT OR ABOVE ELEVATIONS REQUIRED BY THE APPLICABLE LOCAL GOVERNMENT FLOOD CRITERIA.
6. ALL BUILDING FLOORS SHALL BE SET AT OR ABOVE ELEVATIONS ACCEPTABLE TO THE APPLICABLE LOCAL GOVERNMENT.
7. OFF-SITE DISCHARGES DURING CONSTRUCTION AND DEVELOPMENT SHALL BE MADE ONLY THROUGH THE FACILITIES AUTHORIZED BY THIS PERMIT. NO ROADWAY OR BUILDING CONSTRUCTION SHALL COMMENCE ON-SITE UNTIL COMPLETION OF THE PERMITTED DISCHARGE STRUCTURE AND DETENTION AREAS. WATER DISCHARGED FROM THE PROJECT SHALL BE THROUGH STRUCTURES HAVING A MECHANISM SUITABLE FOR REGULATING UPSTREAM WATER STAGES. STAGES MAY BE SUBJECT TO OPERATING SCHEDULES SATISFACTORY TO THE DISTRICT.
8. NO CONSTRUCTION AUTHORIZED HEREIN SHALL COMMENCE UNTIL A RESPONSIBLE ENTITY ACCEPTABLE TO THE DISTRICT HAS BEEN ESTABLISHED AND HAS AGREED TO OPERATE AND MAINTAIN THE SYSTEM. THE ENTITY MUST BE PROVIDED WITH SUFFICIENT OWNERSHIP SO THAT IT HAS CONTROL OVER ALL WATER MANAGEMENT FACILITIES AUTHORIZED HEREIN. UPON RECEIPT OF WRITTEN EVIDENCE OF THE SATISFACTION OF THIS CONDITION, THE DISTRICT WILL ISSUE AN AUTHORIZATION TO COMMENCE CONSTRUCTION.
9. THE PERMIT DOES NOT CONVEY TO THE PERMITTEE ANY PROPERTY RIGHT NOR ANY RIGHTS OR PRIVILEGES OTHER THAN THOSE SPECIFIED IN THE PERMIT AND CHAPTER 406-4, FAC.
10. THE PERMITTEE SHALL HOLD AND SAVE THE DISTRICT HARMLESS FROM ANY AND ALL DAMAGES, CLAIMS, OR LIABILITIES WHICH MAY ARISE BY REASON OF THE CONSTRUCTION, OPERATION, MAINTENANCE OR USE OF ANY FACILITY AUTHORIZED BY THE PERMIT.
11. THIS PERMIT IS ISSUED BASED ON THE APPLICANT'S SUBMITTED INFORMATION WHICH REASONABLY DEMONSTRATES THAT ADVERSE OFF-SITE WATER RESOURCE RELATED IMPACTS WILL NOT BE CAUSED BY THE COMPLETED PERMIT ACTIVITY. IT IS ALSO THE RESPONSIBILITY OF THE PERMITTEE TO INSURE THAT ADVERSE OFF-SITE WATER RESOURCE RELATED IMPACTS DO NOT OCCUR DURING CONSTRUCTION.
12. PRIOR TO DEWATERING, PLANS SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL. INFORMATION SHALL INCLUDE AS A MINIMUM: PUMP SIZES, LOCATIONS AND HOURS OF OPERATION FOR EACH PUMP. IF OFF-SITE DISCHARGE IS PROPOSED, OR OFF-SITE ADVERSE IMPACTS ARE EVIDENT, AN INDIVIDUAL WATER USE PERMIT MAY BE REQUIRED. THE PERMITTEE IS CAUTIONED THAT SEVERAL MONTHS MAY BE REQUIRED FOR CONSIDERATION OF THE WATER USE PERMIT APPLICATION.

LAST DATE FOR GOVERNING BOARD ACTION:  
March 10, 1988

**DRAFT**  
Subject to Governing  
Board Approval

**SURFACE WATER MANAGEMENT**  
**PERMIT MODIFICATION**

APPLICATION NUMBER: 10237-E

December 18, 1987

PERMIT NUMBER: 43-00069-S/W

PROJECT NAME: Evergreen Club (formerly Mid-Rivers)

CITY: N/A

COUNTY: Martin, S1,2,3/T38S/R40E

OWNER: Evergreen Property Owners Association, Inc./Evergreen Club, Inc.

DEVELOPER: John M. Martyn

SPECIAL DISTRICT: N/A

SFWM BASIN: C-23

**ABSTRACT:**

This application is to modify Permit No. 43-00069-S/W for excavation of 7.2 acres of lake area, improvements to the golf course and lot swale system and revision to the existing control structures. These improvements are required due to a Settlement Agreement described in the Background section, below.

**BACKGROUND:**

On August 11, 1977, Permit No. 43-00069-S/W was issued for Construction and Operation of a water management system serving a 500-acre residential/golf course community. The drainage system, however, was not constructed in accordance with the approved design. Specifically, only 10 acres of lake area was excavated and the swale system was inadequately placed. Road and lot flooding resulted in Martin County suing the developer (Martyn) for necessary improvements to the water management system. A settlement agreement was reached which stipulated the developer could modify the Permit in order to provide the same degree of flood protection as originally approved.

**FACILITIES PROPOSED:**

The following improvements are to be performed by specific parties involved:

1. The developer (Martyn) will excavate the lake area and revise the existing control structures (Exhibits 4-8). After completion of developer's responsibilities the developer shall be deleted from the Permit pursuant to settlement agreement;
2. The Evergreen Club Property Owner's Association will be responsible for the swale improvements within the single family lot areas (Exhibit 3);
3. The Evergreen Club, Inc. will be responsible for the swale improvements within the golf course (Exhibit 3).

SCANNED

**OPERATION AND MAINTENANCE:**

Upon completion of the improvements to the surface water management system, the Evergreen Club, Inc. will be responsible for those facilities within the golf course. The Evergreen Property Owner's Association, Inc. will be responsible for the facilities within the single family subdivision.

**RECOMMENDATION:**

The staff recommends that Permit No. 43-00069-S/W be modified for construction and operation subject to the following 12 Standard Limiting and 11 Special Conditions (for conceptual approvals only, these conditions as a minimum will apply to subsequent construction permitting).

APPLICATION REVIEWER:

SUPERVISOR/CHECKER:

TECHNICAL: M. Brady

J. Mang

WATER QUALITY: M. Brady

D. Watt

ENVIRONMENTAL: W. Helfferich

C. Padera

**DRAFT**  
Subject to Governing  
Board Approval

APPROVED:

DIVISION DIRECTOR:

James T. Show  
James T. Show, P.E.  
Water Management Division

DEPARTMENT DIRECTOR:

Richard A. Rogers  
Richard A. Rogers, P.E.  
Resource Control Department

DATE: 12/22/87

AGENDA DESCRIPTION: MODIFICATION OF A PREVIOUSLY APPROVED STORMWATER MANAGEMENT SYSTEM FOR REVISION LAKE SYSTEM AND CONTROL STRUCTURES. DISCHARGE IS INTO THE C-23 CANAL. (PREVIOUS CONSTRUCTION APPROVAL GRANTED AUGUST 11, 1977)



#### LIMITING CONDITIONS

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**SPECIAL CONDITIONS**

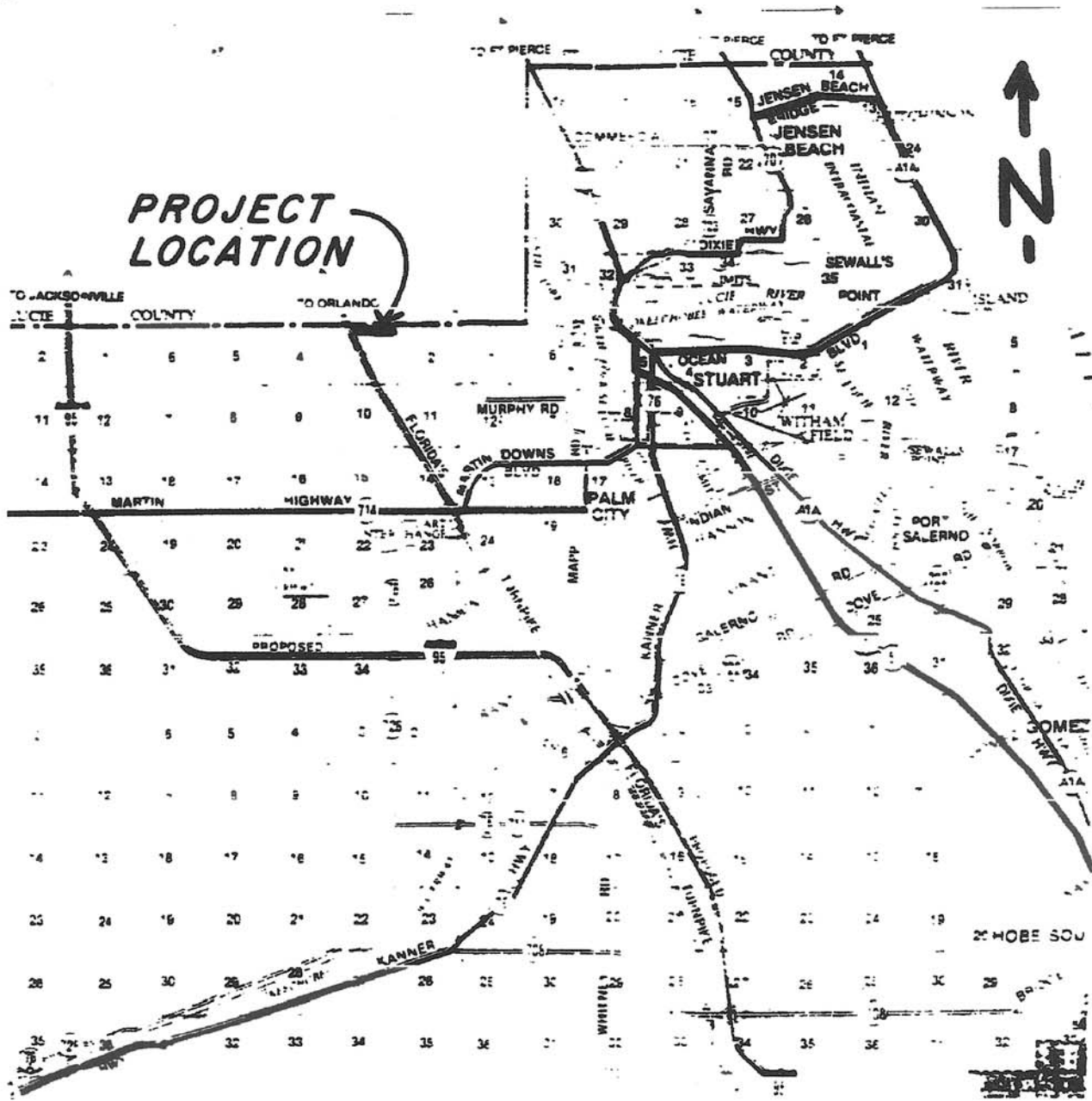
1. MINIMUM BUILDING FLOOR ELEVATION: SEE TABLE 1
2. MINIMUM ROAD CROWN ELEVATION: SEE TABLE 1
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STRUCTURE NO. 1: 1-5.6' WIDE WEIR WITH A CREST AT ELEVATION 5.6' NGVD AND 1-9" DIAMETER ORIFICE WITH AN INVERT AT ELEVATION 3.0' NGVD.  
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RECEIVING WATER: C-23 (BOTH STRUCTURES)

CONTROL ELEVATION: 3.0 FEET NGVD (ENTIRE PROJECT)

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11. USE OF THE C-23 RIGHT OF WAY MUST BE APPROVED BY THIS AGENCY.



**EXHIBIT I**

SCANNED

SUB-DRAINAGE AREA  
(REFER TO TABLE 1)

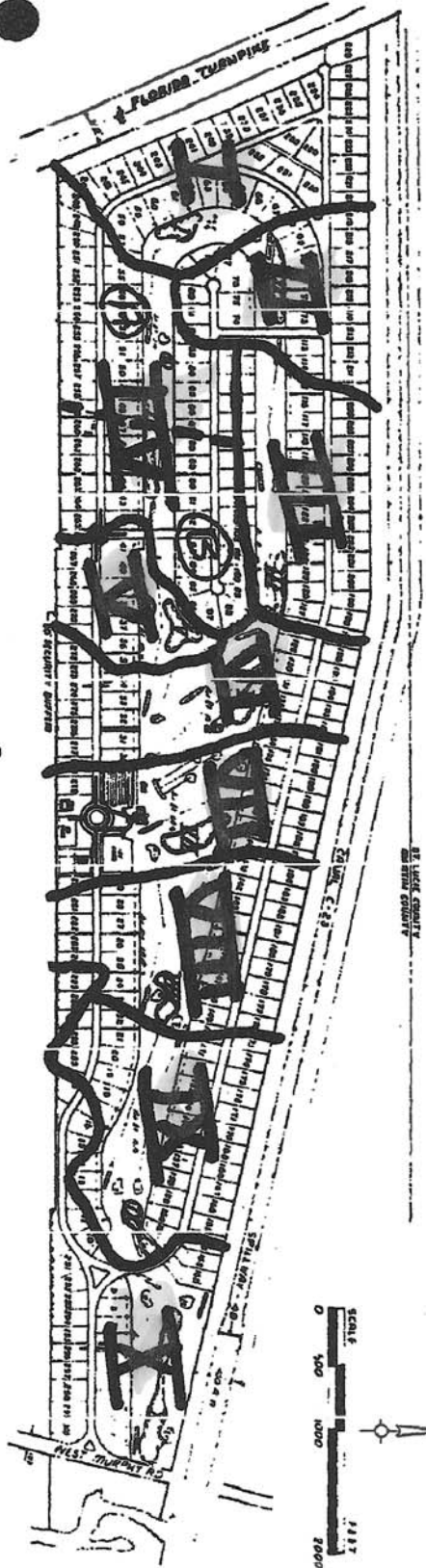


TABLE 1

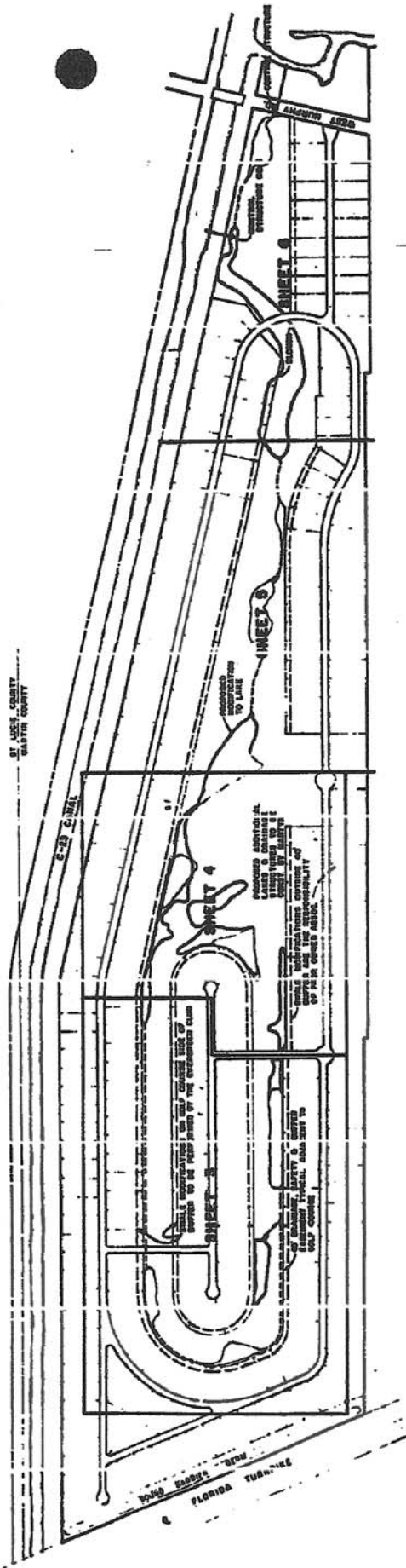
<u>Sub-Drainage Area</u>	<u>Average Grade Elevation</u>	<u>Minimum Road Elevation 10-Year Design Water Level</u>	<u>Minimum Finished Floor</u>
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NOTE: All elevations refer to feet, NGVD

REFER TO EXHIBIT 2

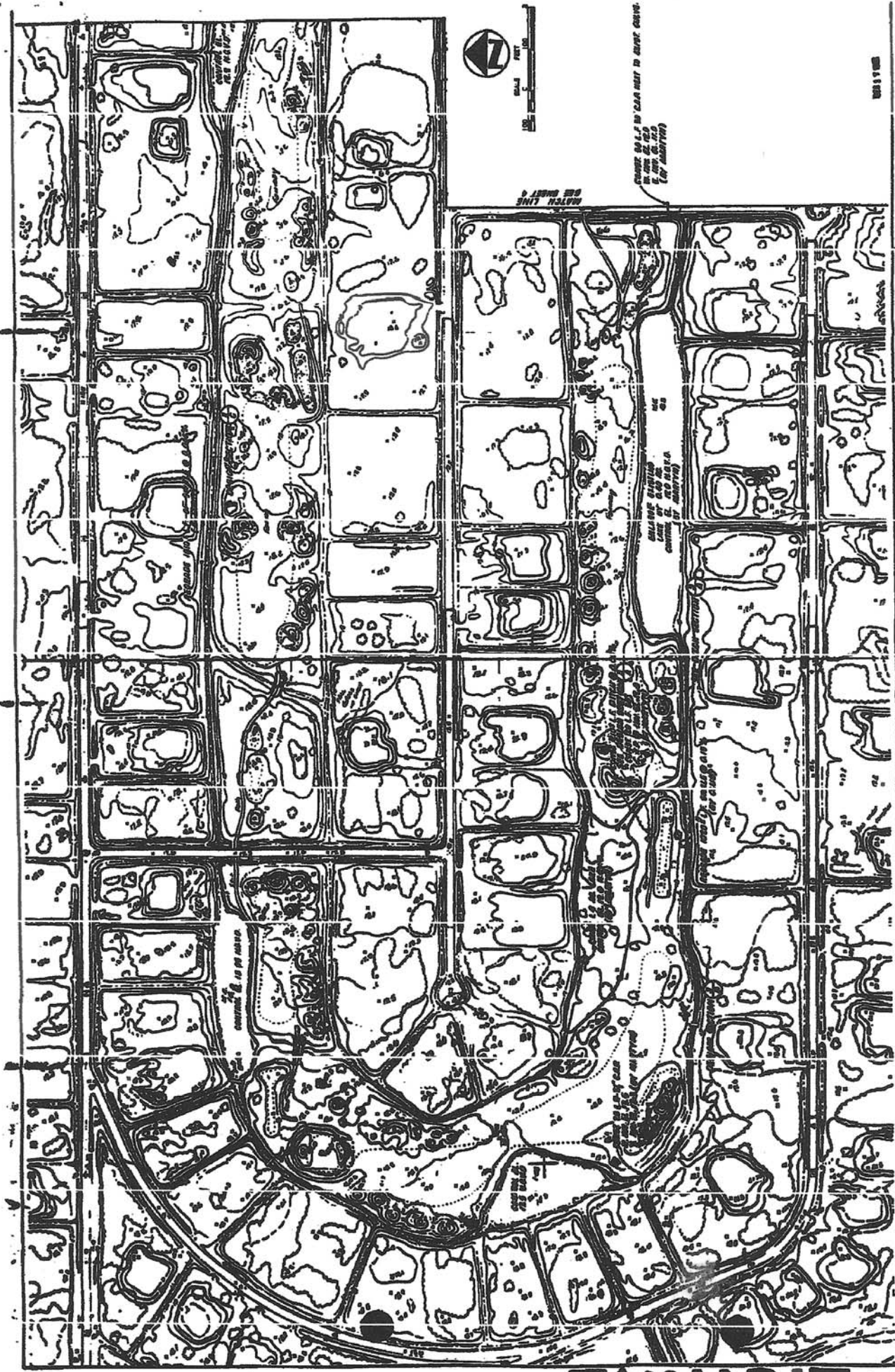


BY ORDER OF THE COUNTY ENGINEER  
GASTON COUNTY



LAWSON, CHRISTOPHER, FREDERICK & ASSOCIATES ENGINEERS ARCHITECTS INTERIORS & LANDSCAPE ARCHITECTS 1000 S. W. 10TH AVENUE, SUITE 200 MIAMI, FLORIDA 33135 TEL: 305-646-1111 FAX: 305-646-1112			No. 644 PLAN NO. 250	SHEET NO. 1 OF 5	SHEET NO. 1 OF 5
TITLE: KEY SHEET					
PROJECT NO. 250		PROJECT NAME: MIDRIVERS		PROJECT LOCATION:	
DATE: 10/1/00		DRAWN BY:		CHECKED BY:	

EXHIBIT 3



UNITED STATES GEOLOGICAL SURVEY  
 WATER RESOURCES DIVISION  
 WASHINGTON, D. C. 20540  
 1:50,000  
 1980

SHEET NO. 1  
 OF 2

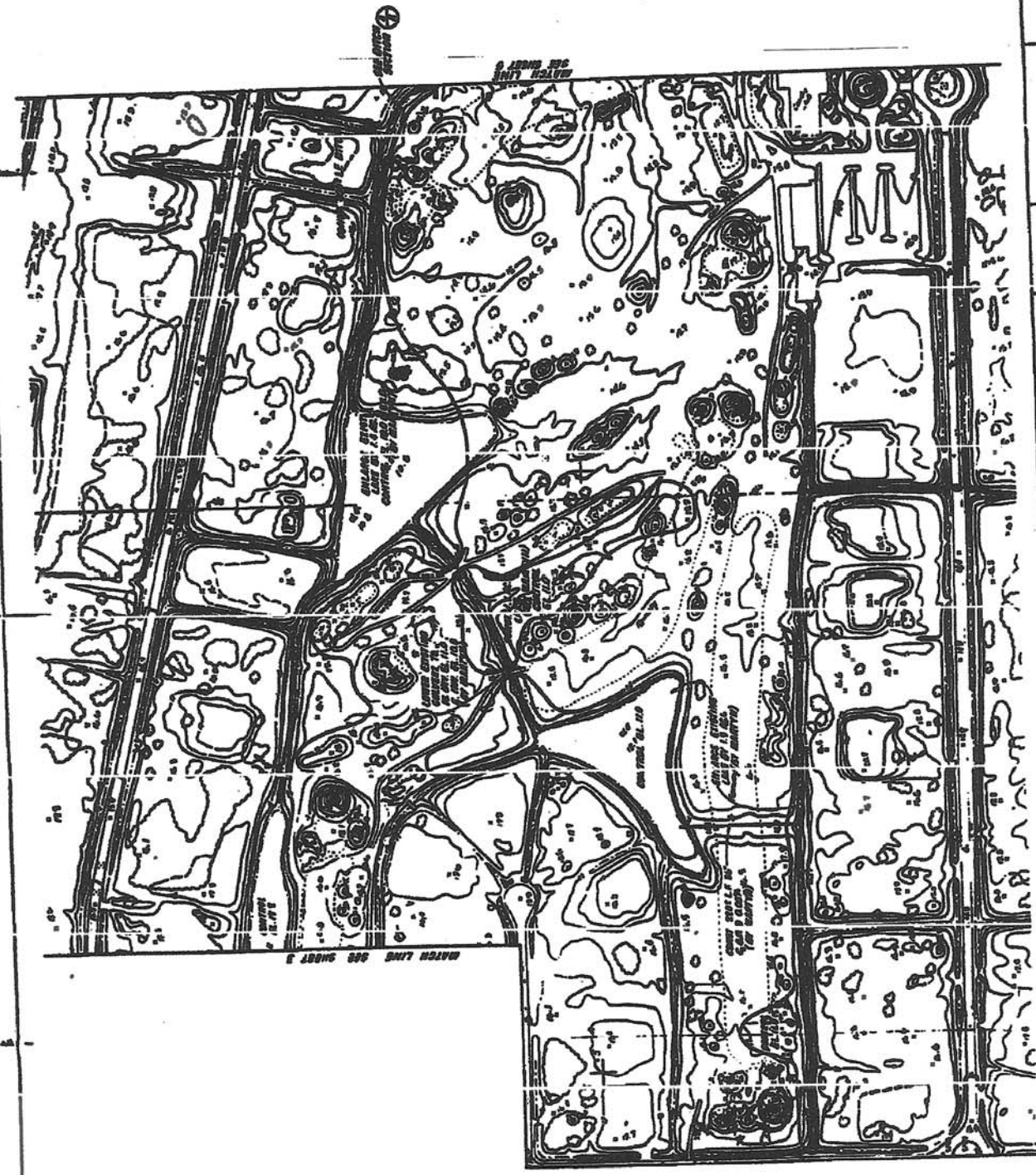
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BY	...
CHECKED BY	...
APPROVED BY	...

PLAN

MIDRIVERS

SCANNED



UNIT OF ENGINEERING, ARCHITECTURE, SURVEYING & LANDSCAPE ARCHITECTURE

PROJECT NO. 00-00-000

DATE: 11/11/00

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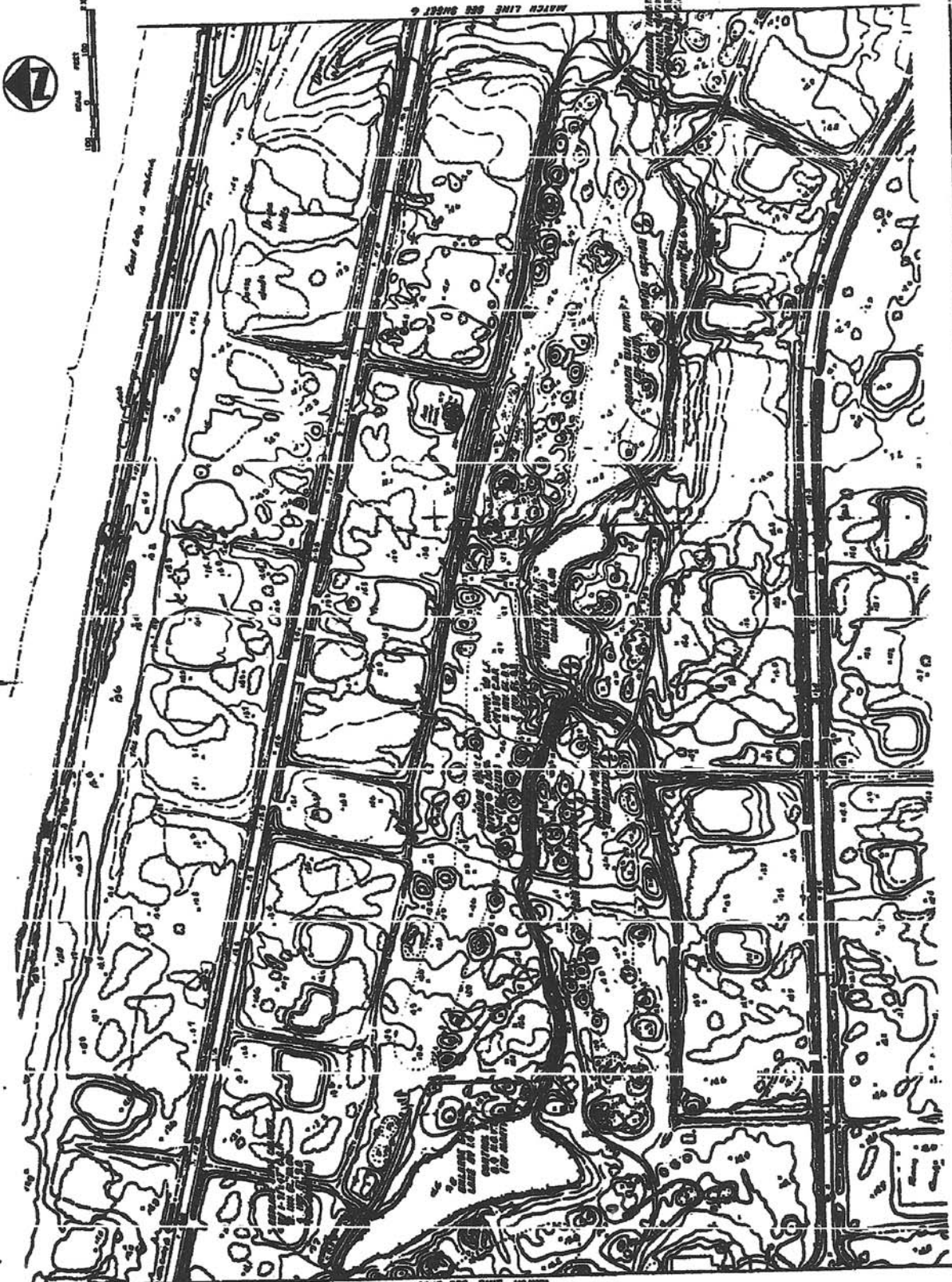
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2	REVISED BY	
3	REVISED BY	
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9	REVISED BY	
10	REVISED BY	

PLAN

MIDDRIVERS

# EXHIBIT 5





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FEET

MATCH LINE SEE SHEET 6

POINT OF SINK  
WATERWAY, FORMER CHANNEL  
WATERWAY, FORMER CHANNEL

081108

PUBLISHED UNDER AUTHORITY OF THE SECRETARY OF THE ARMY ENGINEERING DISTRICT OF WASHINGTON, D. C.	
DATE OF SHEET 1957	DATE OF REVISION 1957
DRAWN BY J. J. ...	CHECKED BY ...
SCALE 1" = 100'	SHEET NO. 1 OF 1

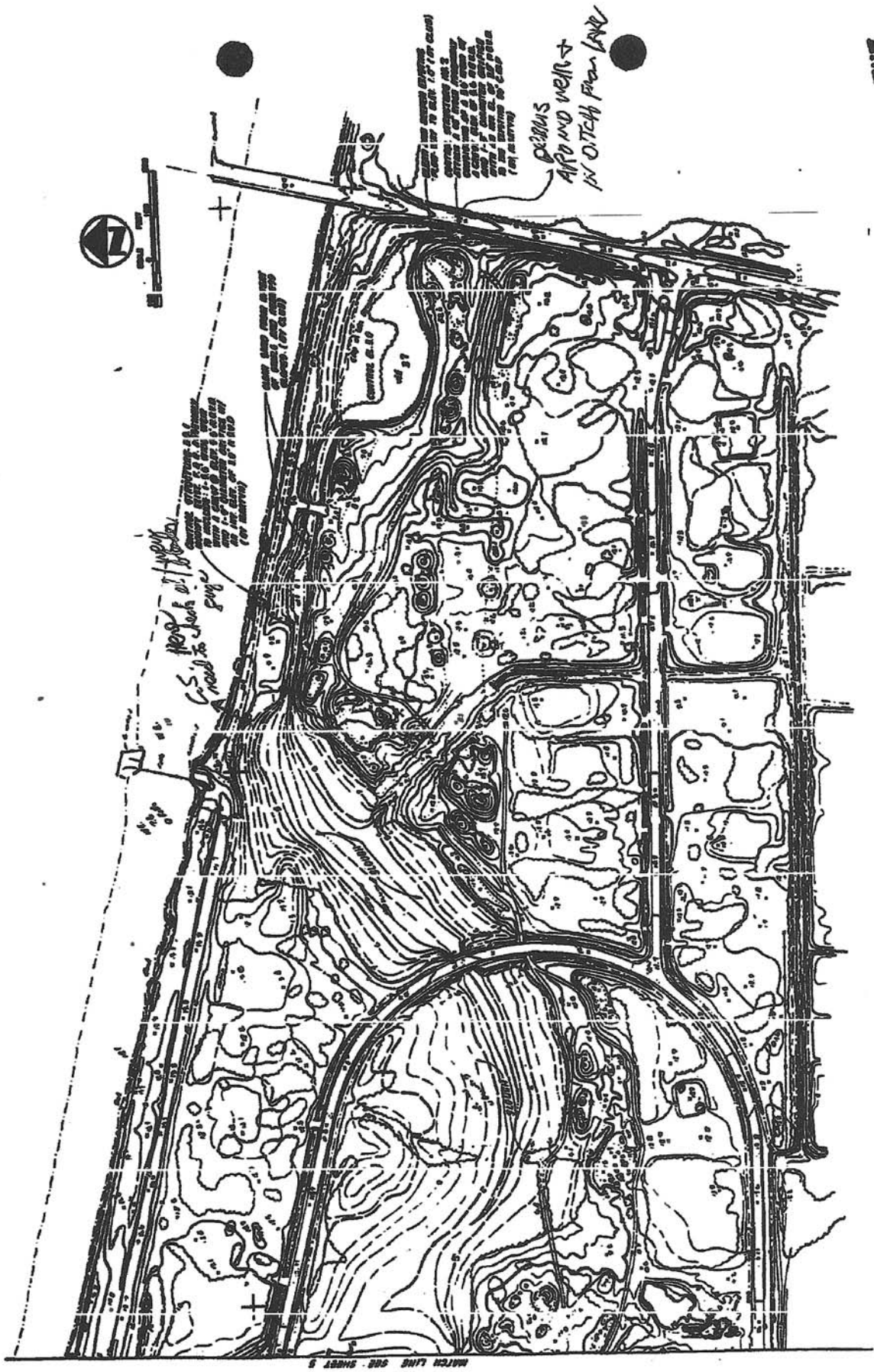
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DATE 1957	SHEET NO. 1 OF 1

REVISIONS NO. DATE BY
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PLAN

MIDRIVERS

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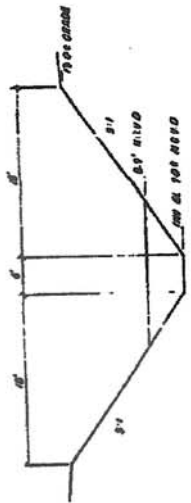
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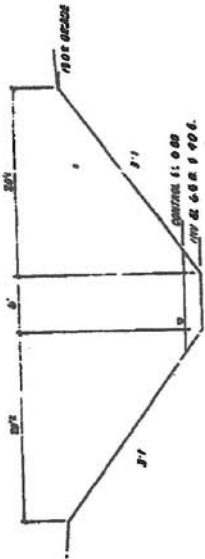
PLAN

MIDRIVERS

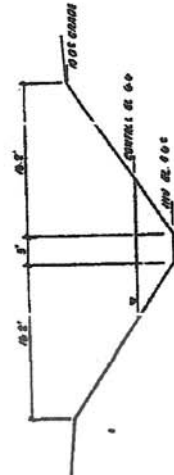
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SWALE SECTION ⊕



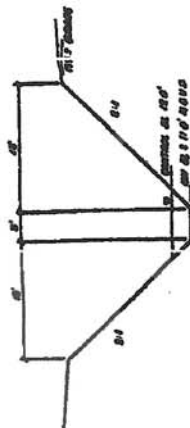
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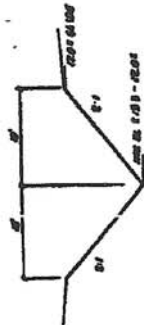
SWALE SECTION ⊕



SWALE SECTION ⊕



SWALE SECTION ⊕



SWALE SECTION ⊕



SWALE SECTION ⊕



SWALE SECTION ⊕

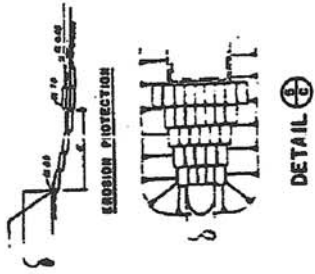


TYPICAL LAKE SECTION

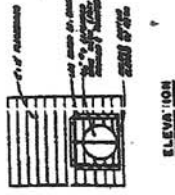
MIDRIVERS

DETAILS

SCANNED



DETAIL ⊕

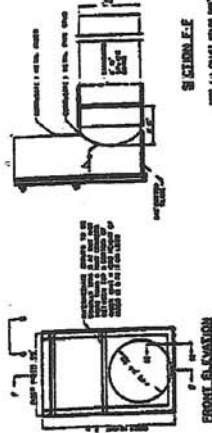


ELEVATION

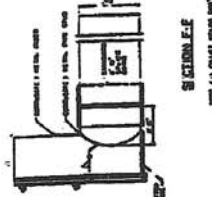


PLAN

BAFFLE (CONSTRUCTION  
BOTH CONTROL STRUCTURE

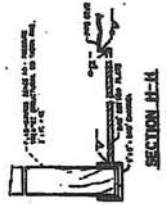


FRONT ELEVATION

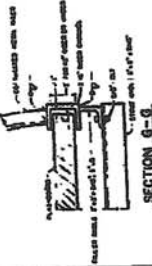
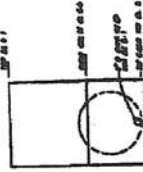


SIDE ELEVATION

CONTROL STRUCTURE NO. 2



SECTION H-H



SECTION G-G

WEIR DETAIL C.S. NO. 2

1031908

		SHEET NO. 1031908 OF 1031908
PROJECT NO. 1031908 DATE 10/1/80		SCALE 1" = 10'
DESIGNER: [Name] CHECKED BY: [Name] DRAWN BY: [Name]		
CONTRACT NO. 1031908		
LOCATION: [Address]		
CLIENT: [Client Name]		
PROJECT DESCRIPTION: [Description]		

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**PROJECT: Evergreen Club**

**APPLICATION NUMBER: 10237-E**

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    Hellstrom, Inc.
- Applicant's Agent:
- X Engineer, County of:  
    Martin
- Engineer, City of:
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- Collier -Agricultural Agent
- Dade -DERM
- Lee -Long Range Planning
- Mosquito Control
- E.P.S.
- X Martin -Attorney
- X -Board of County Comm.
- X -Community Dev. Director
- Palm Beach-Building Dept.
- School Brd., Plant Planning
- Polk -Water Resources Dept.

**OTHER**

- Fred Vidzes, Big Cypress Basin
- Kissimmee River Coordinating Council
- X Mr. W.C. Neilly, Jr



FORM 0286  
Rev 12-87

# TELEPHONE CALL REPORT

DATE 11/09/01 TIME ~ 8:50 am  
APPLICATION NO. or PROJECT Evergreen Club, 43-00069-5 / 10237-E  
CALL FROM or TO Bill Neilly, 561-286-7809  
ITEMS DISCUSSED:

Bill was involved with the site when they enlarged the lakes. He believes that the lack of a continuous perimeter berm contributes to flooding during extreme storm events, due to offsite inflows.

## CONCLUSIONS REACHED OR ITEMS AGREED TO:

The permit considered storage for a 6" rainfall event. Specific berms or their elevations are not called out in the permit, although a permit today would specify one to contain the design storm. Bill will discuss with H&A.

L. Maciejko  
SIGNATURE

COPIES TO: \_\_\_\_\_

SCANNED

CON 24-05

MEMORANDUM

**TO:** Surface Water Management Permit File 43-00069-S

**FROM:** Edward J. Maciejko, Senior Engineer *E.M.*  
Environmental Resource Compliance Division  
Environmental Resource Regulation Department

**DATE:** August 17, 2001

**SUBJECT:** Evergreen Club Surface Water Management System  
Permit Application Number 05137-A and 10237-E  
S1, 2 & 3 / T38S / R40E, Martin County

**Background:**

Some of the existing lake configurations and conveyance facilities at this 500 +/- acre site (see attached location map and site plan) differ from the design plans. A letter in the file references "record drawings", although they were not located, but should be available from the design engineer.

The project consists of 11 sub-drainage areas, each with different control elevations cascading from elevation 13.5' NGVD to 3.0' NGVD. The failure of the C-23 levee occurred in the lowest downstream drainage basin, Sub-Drainage Area X, and east of their Control Structure No. 1. The original permit and the subsequent modification note a 10-year design stage of 8.55' at Sub-Drainage Area X.

**Control Structures:**

The permit issued in 1977, notes that the applicant's discharge capacity should not exceed 72 cfs. This appears to be the discharge capacity of the original outfall culvert (Control Structure No. 1, a.k.a. Project Culvert No. 2, a 36" X 66' CMP), at the design flood stage of 8.55'. It appears that Control Structure No. 1 has been replaced, since certified by the design engineer in 1989. A flashboard riser has also been attached to the culvert.

The status of the boards at the time of the C-23 levee failure (Tropical Storm Barry - August 2, 2001) is unknown. Per field observations on August 15, 2001 there were no boards (down to 6 feet below the top of the riser) in Control Structure No. 1. The boards and bleeder orifice need to be replaced.

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The permit modification of 1988 authorized one additional outfall structure, Control Structure No. 2. Both structures are to have risers, for a combined flow of 76 cfs. On December 5, 1989 a benchmark elevation of 6.25' NGVD was established on the top of the southerly riser of Control Structure No. 2 located on the West of Murphy Road. This structure is a 36" diameter CMP, and appears to be a roadway cross-culvert with a flashboard riser.

The screen over the rectangular bleed-down orifice of Control Structure No. 2 was covered with debris. This needs to be maintained to prevent obstruction of flow. Another type of baffle over the bleeder orifice, similar to a half culvert section, may function better. A small sediment trap/sump around and below the orifice would also help prevent blockage.

The feeder swales leading to Outfall Structure No. 2 should be cleared of excessive vegetation that would restrict flow, and deepened down to elevation 1' NGVD. At the time of my observations portions of the swale were high and dry, with some areas above elevation 3' NGVD.

**Field Observations:**

Before development, the site generally sloped from west to east. Construction of lakes, lot filling, golf course, street, and swale grading have changed the topography. We do not have current topographic data.

The configuration of the lakes, location, and sizes of the internal swales, weirs, and culverts vary from the design plans. Some of the conveyance ditches and swales are overgrown with vegetation and filled with sediment. The bottom of the swale inverts, have grown up from a few inches to a few feet. Regrading/excavation of the conveyance ways is necessary to maintain the design flow lines. Selective clearing of vegetation, especially exotics in the existing slough, is needed to convey the design stormwater flows.

Perimeter detention berms or off-site stormwater inflows are not specified in the permit. It appears that C-23 Canal forms a berm on the north side of the project and Murphy Road berms the site on the northeast. A sound barrier berm and the Florida Turnpike, border the site on the west.

Evergreen Club  
August 17, 2001  
Page 3

There are interconnected swales throughout the site. Off-site stormwater can inflow to the site, notably from the southeast. It appears that approximately 120 acres of off-site adjacent lands (Hidden Bay, Canoe Creek, Westwood Country Estates, and Murphy Road) have the potential to inflow to the Evergreen Club drainage system as flood stages increase.

**Summary:**

Maintenance is needed in the Evergreen Club development. The permit does not specify a perimeter berm, or identify off-site inflows. The site was designed for flood protection of the roads, for a 10-year 1-day storm event consisting of 6 inches of rainfall. Tropical Storm Barry exceeded this design storm.

I recommend the Evergreen Club design/permit/construct a high stage overflow structure, for storm events above the 10-year design storm. This was discussed with the president of the homeowner's association.

Damage to the C-23 levee appears to be due to a combination of factors:

1. High tailwater conditions in Bessey Creek,
2. Design limitations of the Evergreen Club drainage system,
3. Lack of a high-stage overflow discharge structure to serve the site,
4. Off-site inflows entering the Evergreen Club drainage system,
5. Maintenance needs within the Evergreen Club system, and
6. Possible low levee elevations, or seepage/piping through the dike.

EM

Attachments (2)

Additional Attachments:

August 15, 2001 Photos (27 pages)

August 3, 2001 Photos (11 pages)

File Summary (6 pages)

Permits (30 pages)

c: R. M. Brown (4230)  
G. Horne (5100)  
D. Loving / MSL Field File (1670)

*Don*

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