



Jeb Bush
Governor

Department of Environmental Protection

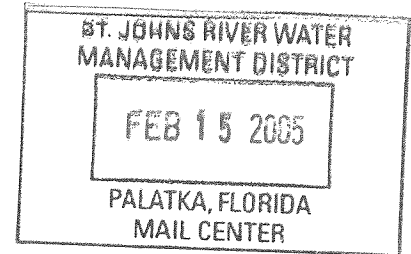
Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Colleen M. Castille
Secretary

NOTICE OF GENERAL PERMIT

St. Johns River Water Management District
C/o Mr. Lance Hart-Technical Program Manager
4049 Reid Street
Palatka, FL 32178

File No.: 35-243312-001
Applicant: SJRWMD



Dear Mr. Hart:

This is to acknowledge receipt of your notice on January 10, 2005, of intent to use a Noticed General Permit to restore the Knight North area within the Emerald Marsh Conservation Area, pursuant to Rule 62-341.485, F.A.C. This restoration project will ultimately restore the marsh wetlands of Knight North that were previously ditched, drained and isolated from Lake Griffin by farm levees. Two breaches will be cut in the south levee, adjacent to the Yale-Griffin canal, and degradation to the remaining south and west levees to reconnect. Prior to breaching, an in-pond alum treatment will be conducted to reduce phosphorous levels within the site. This project is part of the District's continuing efforts to restore Lake Griffin under the Ocklawaha River Surface Water Improvement and Management (SWIM) Plan. This site was previously permitted (Permit No. 35-128436-007) as a disposal site for dredged material by Lake County Water Authority; natural recruitment of submerged vegetation occurred before any spoil material was placed within the site and the disposal site was changed to Eustis Muck Farm, authorized under Permit No. 35-229051-001. The project is located on a former muck farm north of the Yale Griffin Canal, east of Lake Griffin and west of Emerald Lake Road in Sections 20, 21 & 22, Township 18 South, Range 25 East in Lake County.

(1) REGULATORY AUTHORIZATION GRANTED

Based on the forms, drawings, and documents submitted/revised with your notice, it appears that the project meets the requirements for the Noticed General Permit listed above. Any activities performed under a noticed general permit are subject to general conditions required in Rule 62-341.215, F.A.C. (attached), and the specific conditions of Rule 62-341.485, F.A.C. (attached). Any deviations from these conditions may subject the permittee to enforcement action and possible penalties.

Please be advised that the construction phase of the Noticed General Permit must be **completed within five years** from the date the notice to use the Noticed General Permit was received by the Department. If you wish to continue this noticed general permit beyond the expiration date, you must notify the Department at least 30 days before its expiration.

(2) SPGP - PENDING

Your project has been reviewed for compliance with a State Programmatic General Permit (SPGP). Your proposed activity as outlined on the attached drawings is **NOT in compliance with the U.S. Army Corps of Engineers (Corps) State Programmatic General Permit (SPGP)**. A copy of your notice also has been sent to the U.S. Army of Engineers (USACOE) for review. The USACOE may require a separate permit. **Failure to obtain this authorization prior to construction could subject you to enforcement action by that agency.** For further information, you should contact the USACOE.

Authority for review - an agreement with the U.S. Army Corps of Engineers entitled "Coordination Agreement Between the U.S. Army Corps of Engineers (Jacksonville District) and the Florida Department of Environmental Protection State Programmatic General Permit, Section 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act.

RIGHTS OF AFFECTED PARTIES

This letter acknowledges that the proposed activity may be conducted under general permit rule 62-341.485, F.A.C. and is a final determination unless a sufficient petition for an administrative hearing is timely filed under sections 120.569 and 120.57 of the Florida Statutes as set forth below.

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Mediation may also be pursued as specified below.

Because the administrative hearing process is designed to re-determine final agency action on the application, the filing of a petition for an administrative hearing may result in a final determination that the proposed activity is not authorized under the general permit rule 62-341.485. If a sufficient petition for an administrative hearing or request for an extension of time to file a petition is timely filed, this determination automatically becomes only proposed agency action subject to the result of the administrative review process. Mediation may also change the final disposition of the application. Accordingly, the applicant is advised not to commence construction or other activities under this determination until the deadlines noted below for filing a petition for an administrative hearing or request for an extension of time have expired.

Under rule 62-110.106(4) of the Florida Administrative Code, a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the applicable deadline. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon. If a request is filed late, the

Department may still grant it upon a motion by the requesting party showing that the failure to file a request for an extension of time before the deadline was the result of excusable neglect.

In the event that a timely and sufficient petition for an administrative hearing is filed, other persons whose substantial interests will be affected by the outcome of the administrative process have the right to petition to intervene in the proceeding. Intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

In accordance with rule 62-110.106(3), petitions for an administrative hearing by the applicant must be filed within 21 days of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under section 120.60(3) of the Florida Statutes, must be filed within 21 days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within 21 days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition for an administrative hearing or pursue mediation as provided below within the appropriate time period shall constitute a waiver of those rights.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action; and
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action;

- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301. Under sections 120.569(2)(c) and (d) of the Florida Statutes, a petition for administrative hearing must be dismissed by the agency if the petition does not substantially comply with the above requirements or is untimely filed.

In addition to petitioning for an administrative hearing, any person who has previously filed a petition for an administrative hearing may pursue mediation. If a written mediation agreement with all parties to the proceeding (i.e., the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing) is filed with the Department within 10 days after the deadline for filing a petition for an administrative hearing, the time limitations imposed by sections 120.569 and 120.57 shall be tolled to allow mediation to proceed. The agreement must contain all the information required by rule 28-106.404. The agreement must be received by the clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the deadline noted above.

Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. As noted above, persons seeking to protect their substantial interests that would be affected by such a final decision modified through mediation must file their petitions within 21 days of receipt or publication of this notice as provided above, or they shall be deemed to have waived their right to a proceeding under sections 120.569 and 120.57.

This action is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above. Upon the timely filing of a petition this order will not be effective until further order of the Department.

This determination constitutes an order of the Department. The applicant has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when the final order is filed with the Clerk of the Department. The applicant, or any party within the meaning of section 373.114(1)(a) of the Florida Statutes, may also seek appellate review of this order before the Land and Water Adjudicatory Commission under section 373.114(1) of the Florida Statutes. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when the final order is filed with the Clerk of the Department.

Applicant: SJWMD
File No. 35-243312-001
Page 5 of 7

If you revise your project after submitting the initial joint application, please contact us as soon as possible. Also, if you have any questions, please contact Nicole Martin at the letterhead address or call 407/ 893-7865, between the hours of 7:00 a.m. and 3:30 p.m. When referring to this project, please use the file number listed above.

Sincerely,



Lisa Prather
Environmental Manager
Submerged Lands and Environmental
Resources Program


LP/nm/dv

Date: Feb. 11, 2005

Enclosure:

Specific Conditions for NGP 62-341.485, F.A.C.
General Conditions 62-341.215, F.A.C.
Copy of Drawings

Copies furnished to:

U.S. Army Corps of Engineers, Jacksonville
Lake County Water Authority
Lake County Water Resource Management

NOTICE OF GENERAL PERMIT

In the Matter of an Application
For a General Permit by:
St. Johns River Water Management District

DEP File No. 35-243312-001
Lake County

The Department of Environmental Protection gives notice that it has determined that the breaching of levees and in-pond alum treatment to facilitate the restoration of the former Knight North muck farm by the St. Johns River Water Management District qualifies for the Noticed General Permit established under rule 62.341.485, F.A.C.

The Department's determination shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes. The time and procedure for petitioning for a hearing are set forth below. Upon the timely filing of a petition, this determination will not be effective until further order of the Department.

A person whose substantial interests are affected by the Department's decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. The petitioner shall also mail a copy of the petition to the applicant at the address indicated above at the time of filing.

Petitions must be filed within 21 days of publication or receipt of this written notice, except that a petition by any person entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within 21 days of receipt of the written notice. The failure of any person to file a petition within the 21 day time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition must contain the following information:

- a) The name, address, and telephone number of each petitioner; the Department permit identification number and the county in which the subject matter or activity is located;
- b) A statement of how and when each petitioner received notice of the Department action;
- c) A statement of how each petitioner's substantial interests are affected by the Department action;
- d) A statement of the material facts disputed by the petitioner, if any;
- e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
- f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department action; and

- g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301.

Because the administrative hearing process is designed to re-determine the Department's determination, the filing of a petition means that the Department's final determination may be different from the determination stated in this notice. Persons whose substantial interests may be affected by any change in the Department's determination have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation under section 120.573 of the Florida Statutes is not available for this proceeding.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Central District Office, 3319 Maguire Blvd., Orlando, Fl. 32809

RESOURCE PERMITS

62-341.485 General Permit to Water Management Districts for Environmental Restoration or Enhancement.

(1) A general permit is hereby granted to the water management districts for the construction, alteration, operation, maintenance, removal and abandonment of systems to implement Department or District environmental restoration or enhancement projects.

(2) In order to qualify for this general permit, the environmental restoration or enhancement project must comply with any one of the following procedures:

(a) the project is part of a Surface Water Improvement and Management Plan developed pursuant to Section 373.453, F.S., that is reviewed by the Department and approved by a water management district in accordance with Section 373.456, F.S.;

(b) the project is approved by the Water Management District Governing Board or the Secretary of the Department after conducting at least one public meeting; or

(c) the project is wholly or partially funded by the Department through the Pollution Recovery Trust Fund pursuant to Section 403.165, F.S., or the Water Resource Restoration and Preservation Act pursuant to Section 403.0165, F.S.

(3) This general permit shall be subject to the following specific conditions:

(a) a project under this general permit shall not significantly impede navigation; and

(b) all erodible ground areas and slopes disturbed during construction shall be revegetated with sod, mulch, seed, wetland species, or otherwise appropriately stabilized within 72 hours after completion of the activity authorized under this general permit and at any other time as necessary to prevent violations of state water quality standards.

Specific Authority 373.026, 373.043, 373.044, 373.118, 373.406, 403.814, FS.

Law Implemented 373.026, 373.043, 373.046, 373.118, 373.403, 373.413, 373.416, 373.418, 373.419, 373.422, 373.423, 373.426, 403.814, FS.

History -- New 10-3-95.

62-341.215 General Conditions for All Noticed General Permits.

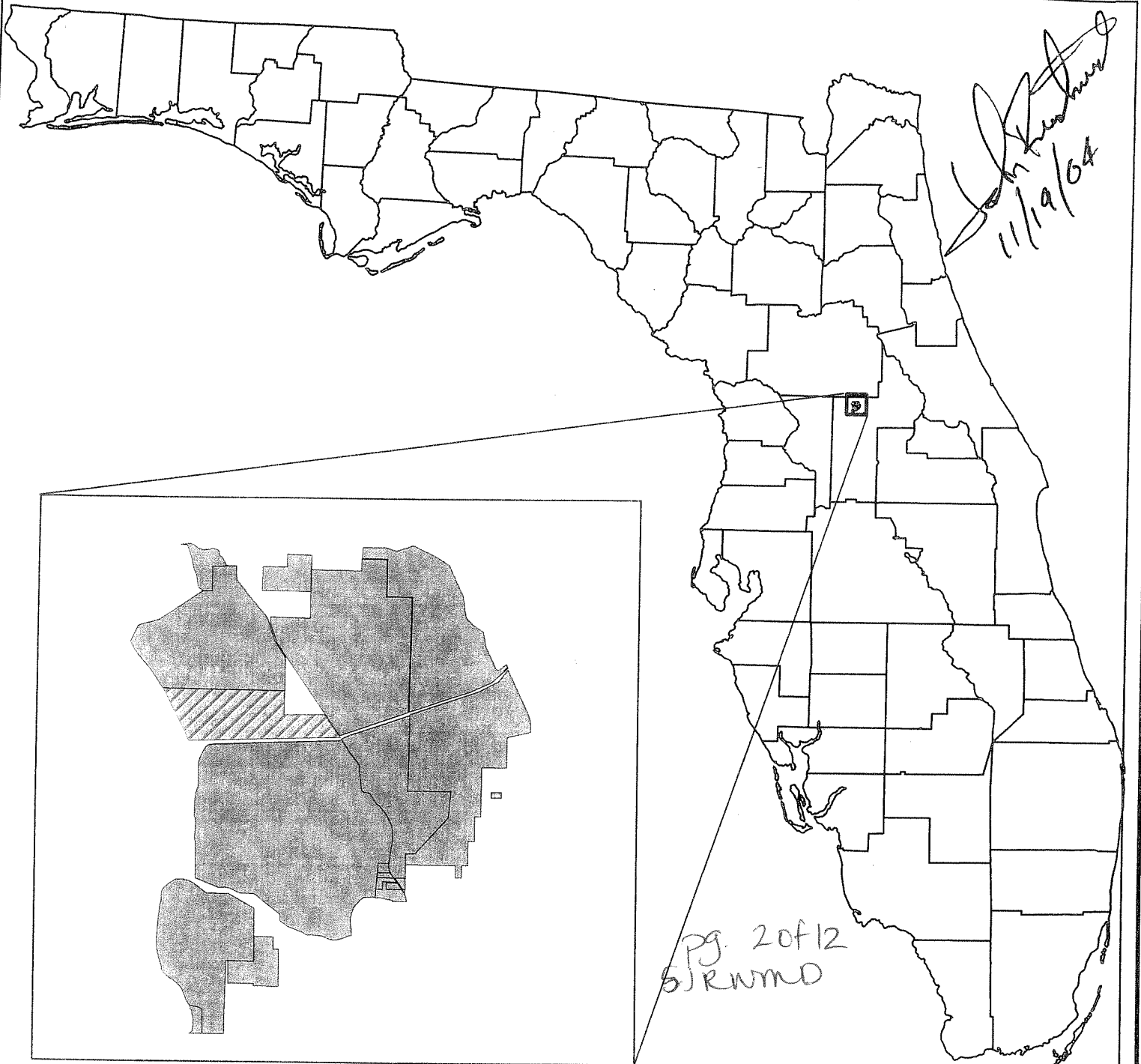
- (1) The terms, conditions, requirements, limitations, and restrictions set forth in this section are general permit conditions and are binding upon the permittee for all noticed general permits in this chapter. These conditions are enforceable under Part IV of Chapter 373, F.S.
- (2) The general permit is valid only for the specific activity indicated. Any deviation from the specified activity and the conditions for undertaking that activity shall constitute a violation of the permit. A violation of the permit is a violation of Part IV of Chapter 373, F.S., and may result in suspension or revocation of the permittee's right to conduct such activity under the general permit. The Department also may begin legal proceedings seeking penalties or other remedies as provided by law for any violation of these conditions.
- (3) This general permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any construction, alteration, operation, maintenance, removal or abandonment authorized by this permit.
- (4) This general permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the general permit as provided by Chapter 62-330, F.A.C.
- (5) The general permit does not relieve the permittee from liability and penalties when the permitted activity causes harm or injury to: human health or welfare; animal, plant or aquatic life; or property. It does not allow the permittee to cause pollution in contravention of Florida Statutes and Department rules.
- (6) The permittee is hereby advised that Section 253.77, F.S., states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.
- (7) The authorization to conduct activities pursuant to a general permit may be modified, suspended or revoked in accordance with Chapter 120, F.S., and Section 373.429, F.S.
- (8) This permit shall not be transferred to a third party except pursuant to Section 62-343.130, F.A.C. The permittee transferring the general permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located.
- (9) Upon reasonable notice to the permittee, Department staff with proper identification shall have permission to enter, inspect, sample and test the permitted system to insure conformity with the plans and specifications approved by the permit.
- (10) The permittee shall maintain any permitted system in accordance with the plans submitted to the Department and authorized in this general permit.
- (11) A permittee's right to conduct a specific noticed activity under this noticed general permit is authorized for a duration of five years.
- (12) Construction, alteration, operation, maintenance, removal and abandonment approved by this general permit shall be conducted in a manner which does not cause violations of state water quality standards, including any antidegradation provisions of Sections 62-4.242(1)(a) and (b), 62-4.242(2) and (3), and 62-302.300, F.A.C., and any special standards for Outstanding Florida Waters and Outstanding National Resource Waters. The permittee shall implement best management practices for erosion, turbidity, and other pollution control to prevent violation of state water quality standards. Temporary erosion control measures such as sodding, mulching, and seeding shall be implemented and shall be maintained on all erodible ground areas prior to and during construction. Permanent erosion control measures such as sodding and planting of wetland species shall be completed within seven days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into wetlands and other surface waters exists due to the permitted activity. Turbidity barriers shall remain in place and shall be maintained in a functional condition at all locations until construction is completed and soils are stabilized and vegetation has been established. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
- (13) The permittee shall hold and save the Department harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the general permit.
- (14) The permittee shall immediately notify the Department in writing of any previously submitted information that is later discovered to be inaccurate.

Specific Authority 373.026, 373.043, 373.044, 373.118, 373.406, 403.813, 403.814, FS.

Law Implemented 373.026, 373.043, 373.046, 373.118, 373.403, 373.413, 373.416, 373.418, 373.419, 373.422, 373.423, 373.426, 403.813, 403.814, FS.

History -- New 10-3-95.

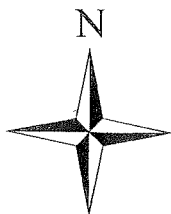




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JAN 10 2005

Project Location

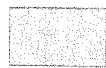


0 1 2 Miles

Central Dist. LRP



Close up of EMCA



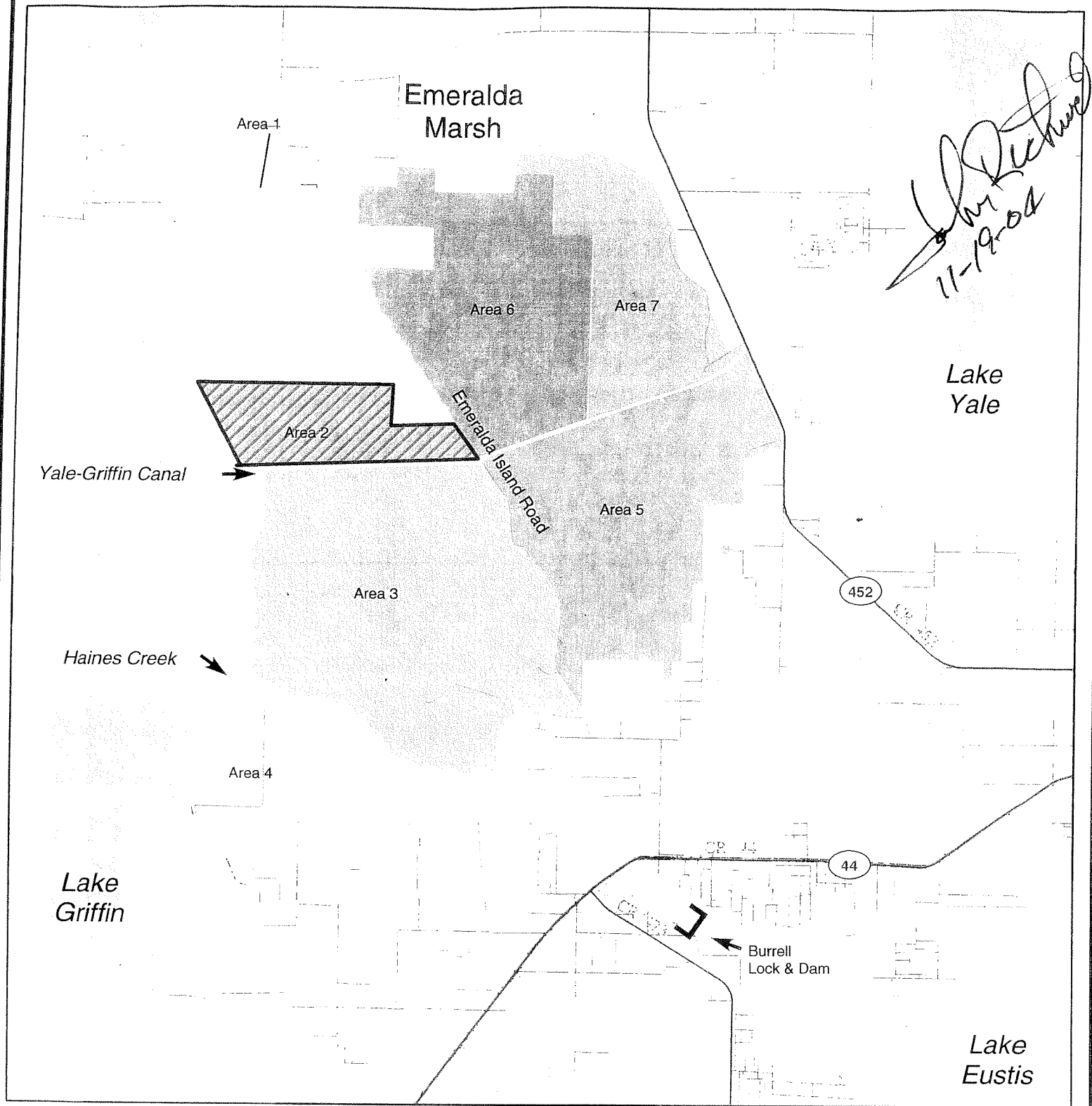
Other EMCA Properties



Area 2 - Knight North

The St. Johns River Water Management District prepares and uses this information for its own purposes and this information may not be suitable for other purposes. This information is provided as is. Further documentation of this data can be obtained by contacting: St. Johns River Water Management District, Geographic Information Systems, Program Management, P.O. Box 1429, Palatka, Florida 32178-1429. Tel: (386) 329-4176.

35-243312001



Emeralda Marsh Conservation Area

Received

N

JAN 10 2005

Central Dist. ERP



0 0.5 1 Miles

Area 1



Area 2
Knight North

Area 3

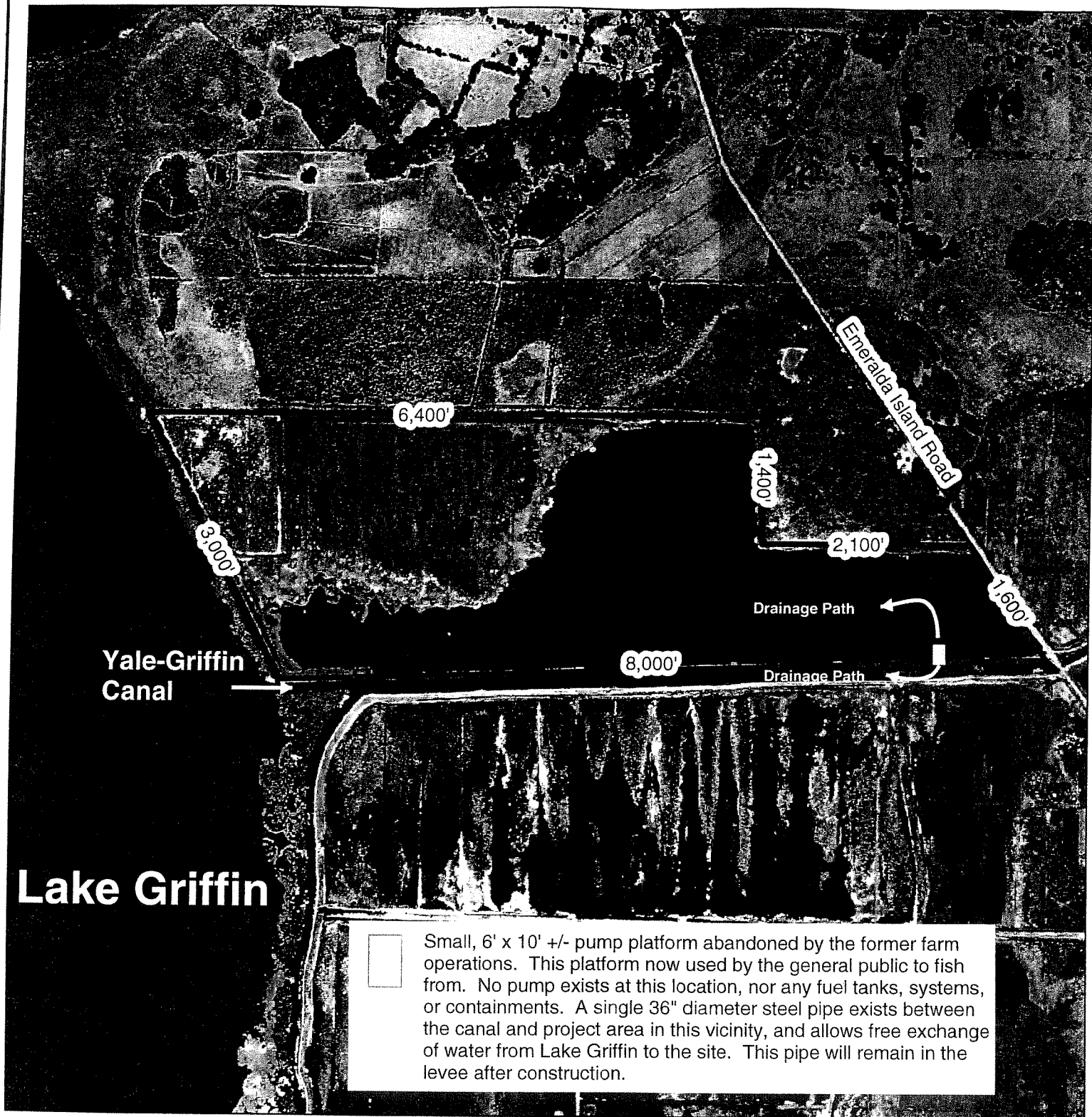
Area 4

Area 6

Area 7

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35-2433 12001



☐ Small, 6' x 10' +/- pump platform abandoned by the former farm operations. This platform now used by the general public to fish from. No pump exists at this location, nor any fuel tanks, systems, or containments. A single 36" diameter steel pipe exists between the canal and project area in this vicinity, and allows free exchange of water from Lake Griffin to the site. This pipe will remain in the levee after construction.

Area 2 - Knight North

Received

JAN 10 2005

Central Dist. ER2



0 0.2 0.4 Miles



Knight North
Property
Boundary

pg. 4 of 12
SRWMD

John R. [Signature]
11-19-04

The St. Johns River Water Management District prepares and uses this information for its own purposes and this information may not be suitable for other purposes. This information is provided as is. Further documentation of this data can be obtained by contacting: St. Johns River Water Management District, Geographic Information Systems, Program Management, P.O. Box 1429, 4049 Reid Street Palatka, Florida 32178-1429 Tel: (386) 329-4176.

35-243312001



John Richmond, P.E.

Supervising Professional Engineer • Division of Engineering
St. Johns River Water Management District
4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429
Phone: (386) 329-4403 • SUNCOM: 860-4403
Cell: (386) 937-0541 • Fax: (386) 329-4329
E-mail: jrichmond@sjrwmd.com

Pg. 5 of 12
SJRWMD

Subject: PROJECT SUMMARY

AND BACKGROUND

Sheet: _____

Date: _____

[Signature]
11-1-04

Summary

LEVEE BREACHINGS 1 and 2 - Cutting 2 breaches in the South levee of the former farm, from elevation 60.0 to elevation 54.0. Filling the 120 c.y. of material removed into the adjacent ditch previously filled by levee degrading, in a 20ft x 23ft area, 3.5 ft deep (negligible area of 0.01 ac.). See Section A-A.

DEGRADE AREA 1 - Cutting 7,050 c.y. of material from a 6,800 ft length levee along the South boundary of the former farm, from elevation of 60.0 down to elevation 58.0. Filling +/- 3 acres of the adjacent farm ditch with the materials removed. See Section B-B.

DEGRADE AREA 2 - Cutting 9,260 c.y. of material from a 2,500 ft length of levee along the West boundary of the former farm, from elevation of 64.0 down to elevation 59.0. Filling +/- 1.5 acres or the adjacent farm ditch with the materials removed. See Section C-C.

No work will be performed on the Northern or Eastern levees of the former farm. Floating turbidity barriers will isolate construction from Lake Griffin waters for all activities.

Total cut and fill of 16,430 c.y. over 4.5 acres.

Background

Prior to muck farm development along the eastern shore of Lake Griffin, this and other similar areas in this vicinity consisted of large areas of sawgrass marsh, wet prairie and other wetland communities. By 1958 muck farm development had begun in the area, and by the early 1970s, this project site had been converted to a muck farm for feed grass and oat production. Water from seepage and rainfall was controlled by an interior ditch system that connected to pump stations discharging to Lake Griffin.

This 410-acre Knight-North project site is located along the eastern shore of Lake Griffin, north of the Yale Griffin canal, and west of Emerald Island (County) Rd. The St. Johns River Water Management District (SJRWMD) purchased the property in 1991. The site was allowed to flood to lake level in 1992, and has been under passive management since. Once flooded, Area 2 developed as a large area of open water, submersed vegetation and numerous emergents around the perimeter of the former muck farm. Emergent vegetation in Area 2 includes pickerelweed (*Pontederia cordata*), lance-leaf arrowhead (*Sagittaria lancifolia*), cattail (*Typha latifolia*), and rushes (*Scirpus spp.*).

The restoration goal at Area 2 is to reconnect the property with Lake Griffin. Benefits of reconnection include a free exchange of water with Lake Griffin via the Yale-Griffin canal, movement of wildlife (animals and plants) into the site, free access of people by boat into the deeper areas of the property, and development of nesting, loafing, and roosting habitat for avian wildlife.

Received

JAN 10 2005

Central Dist. Eng.

35-243312001



John Richmond

Supervising Professional Engineer • Division of Engineering
St. Johns River Water Management District
4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429
Phone: (386) 329-4403 • SUNCOM: 860-4403
Cell: (386) 937-0541 • Fax: (386) 329-4329
E-mail: jrichmond@sjrwmd.com

Subject: PROJECT WORK

CROSS-SECTIONS A & B

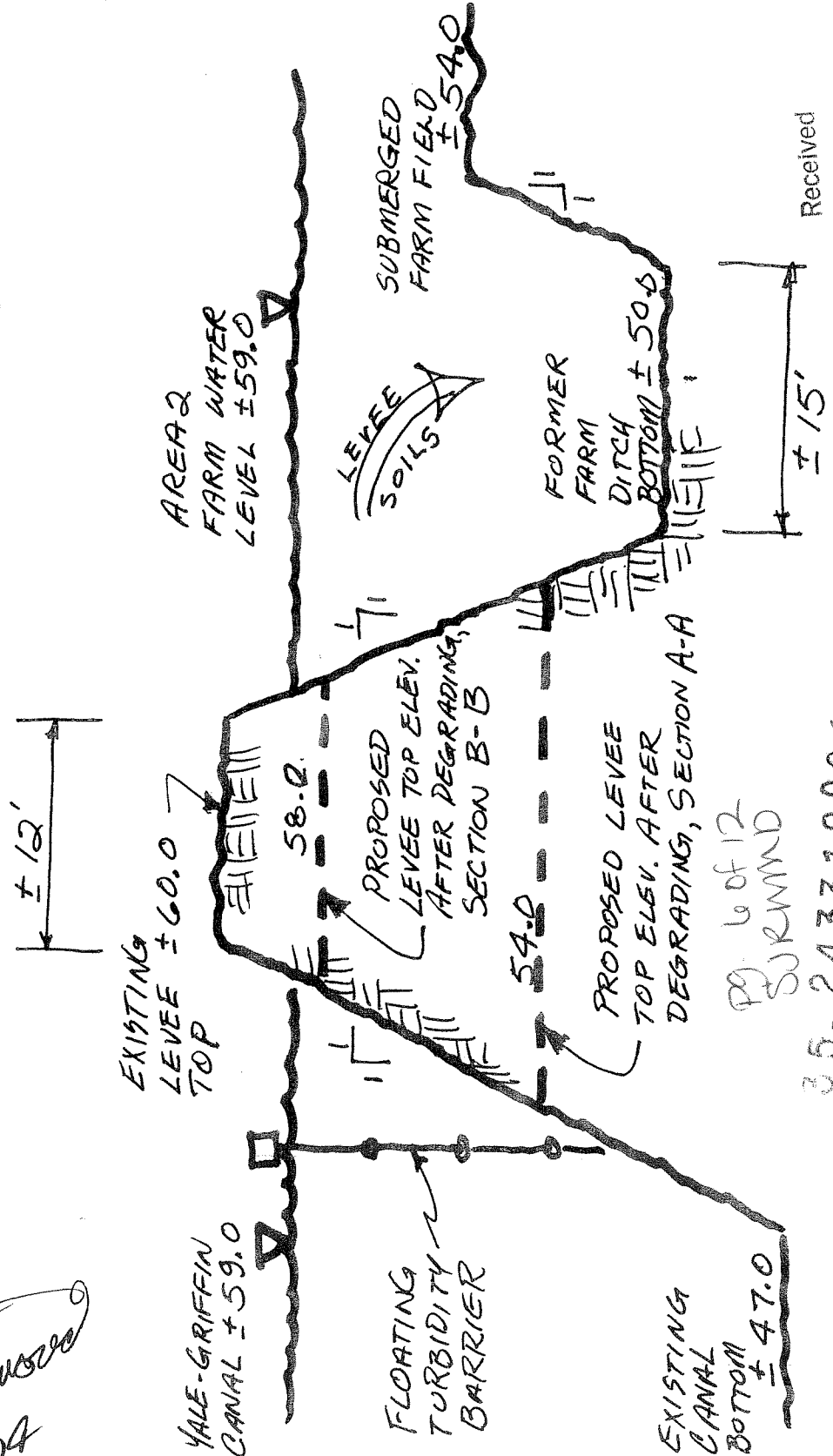
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Date: _____

PROPOSED AND
EXISTING CONDITIONS AT
CROSS-SECTIONS A-A & B-B

John Richmond
11-19-04

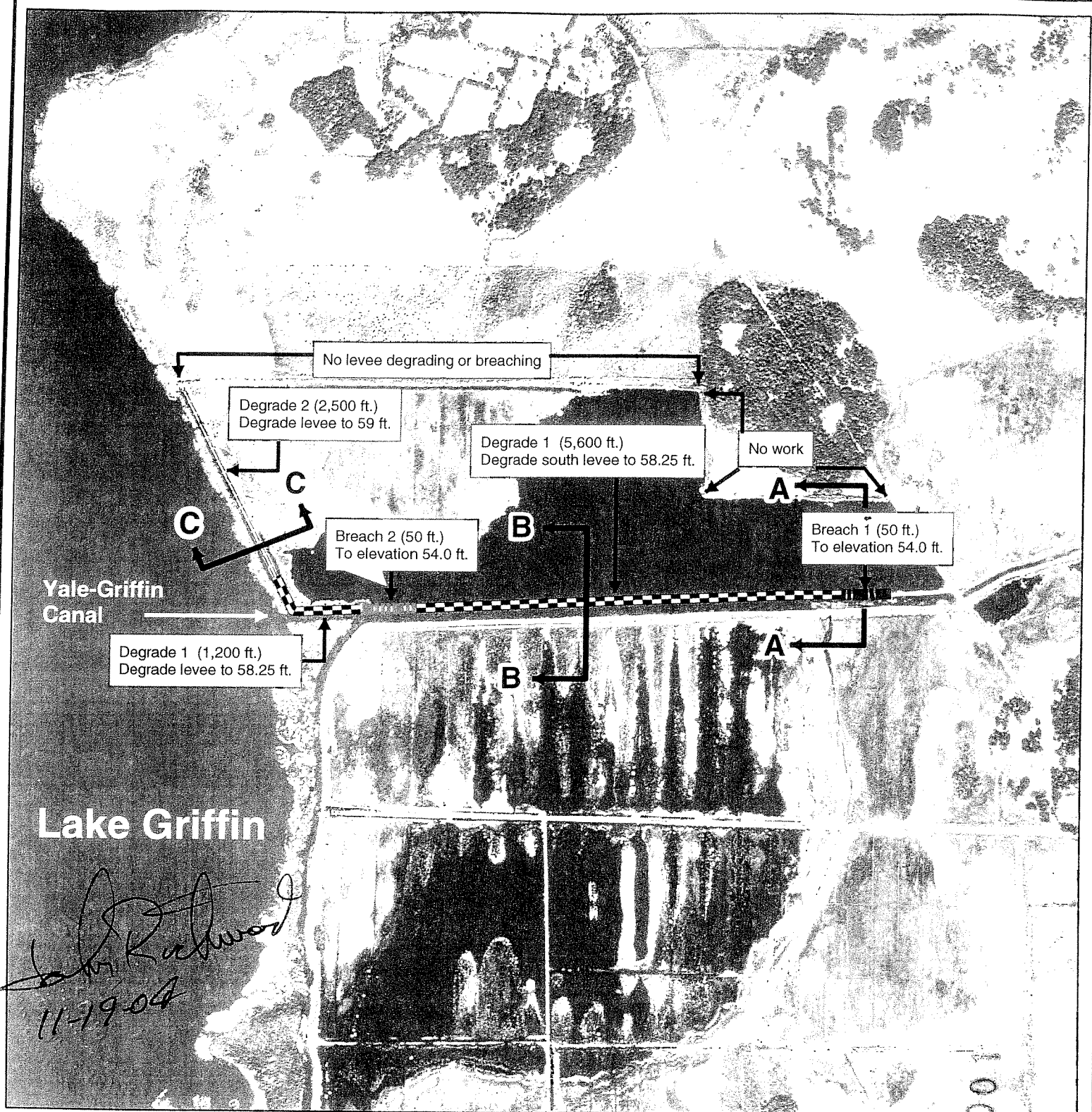
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JAN 10 2005
Central Dist. DEP



Received
JAN 10 2005
Central Dist. DEP

PG. 6 of 12
SJRWMD
35-243312001

N
N.T.S.



Area 2 - Knight North Levee Removal Emeralda Marsh Conservation Area

pg. 7 of 12
SJRWMD
35-243312-001



JAN 10 2005

Dist. ERP

0 0.25 0.5 Miles

Plan for Levee Removal

- Breach 1
- Breach 2
- Degrade 1
- Degrade 2

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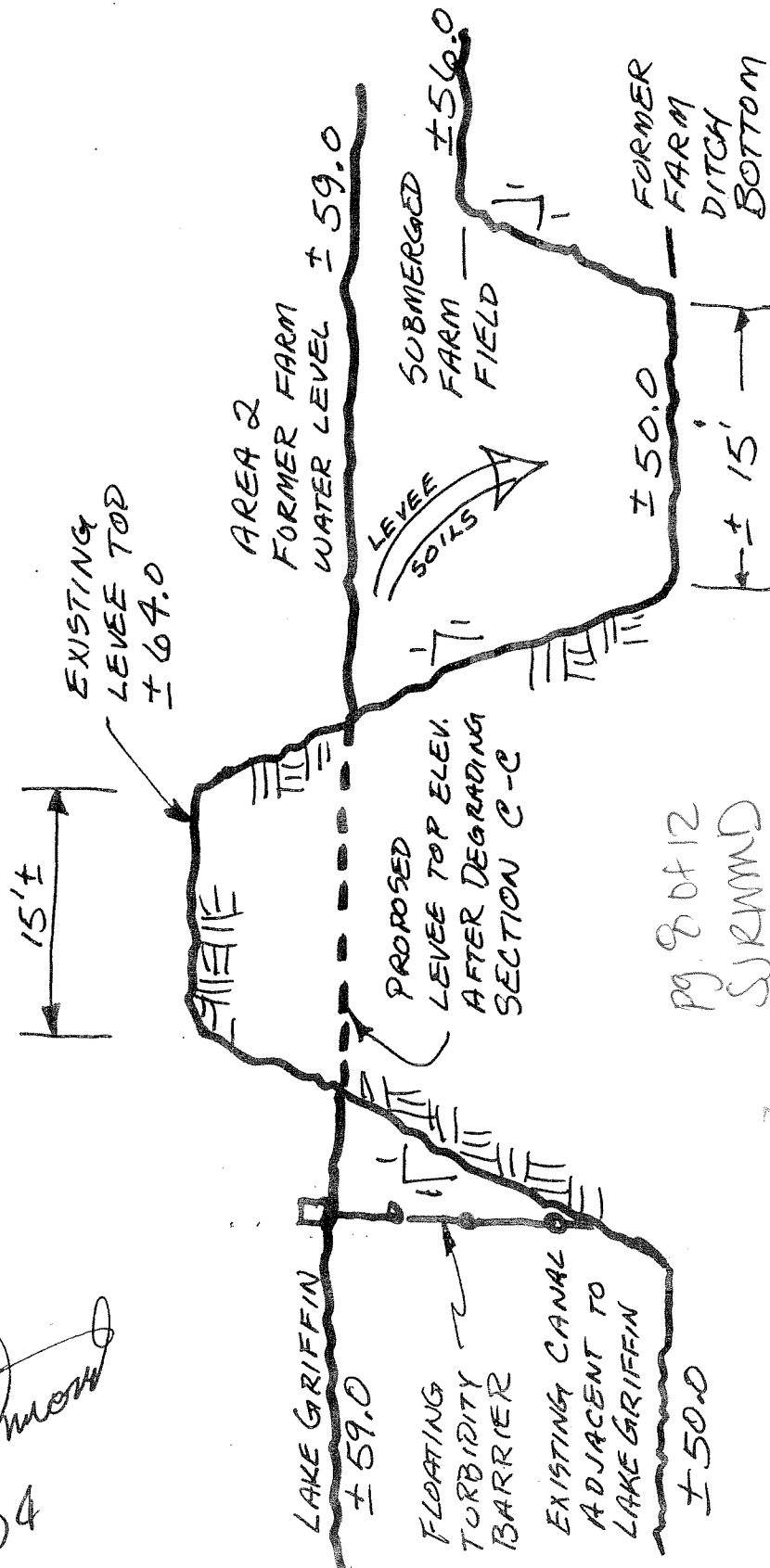
Subject: PROJECT WORK

CROSS-SECTION C

Sheet: _____

Date: _____

PROPOSED AND EXISTING CONDITIONS
AT CROSS-SECTION C-C



Received

JAN 10 2005

Central Dist. CD

pg 8 of 12
SJRWMD

35-243372001

John Richmond
11-19-04

N
N.E.S.



John Richmond

Supervising Professional Engineer • Division of Engineering
St. Johns River Water Management District
4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429
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Subject: VOLUME CALCULATIONS

FOR CUT & FILL OF BREACHES

Sheet: _____

Date: _____

VOLUME CALCULATIONS — SECTION A-A

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SJRWMD

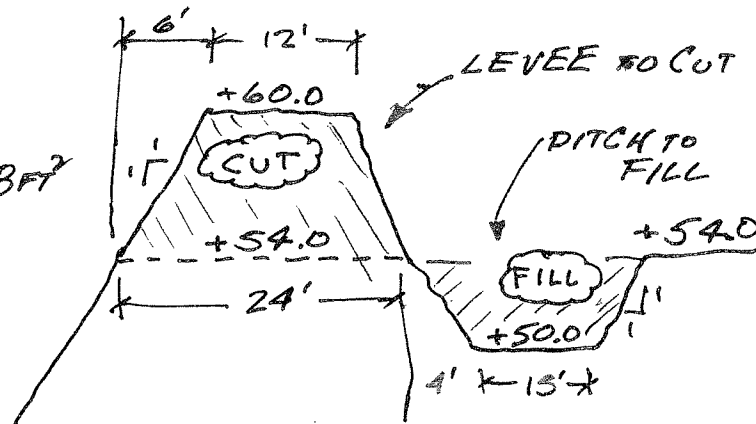
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THESE CALCULATIONS EXAMINE THE CAPACITY OF THE DITCH AS COMPARED TO THE FILL BEING PLACED IN IT, FOR BREACH 1 & 2 LOCATIONS.

CUT AREA:

$$\frac{(6' + 12' + 6') \times (12')}{2} \times (60 - 54) = 108 \text{ FT}^2$$

CUT TYPICAL = 108 FT²



FILL AREA:

$$\frac{(4' + 15' + 4') \times (15')}{2} \times (54 - 50) = 76 \text{ FT}^2$$

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FOR THE 2 BREACH AREAS WE SEE THE DITCH CAPACITY IS NOT GREAT ENOUGH FOR ALL MATERIAL FROM LEVEE, BY $108 - 76 = 32 \text{ FT}^2/\text{FT}$ OF BREACH. THEREFORE FILL WILL BE HIGHER AT SELECT LOCATIONS: FOR BREACH LENGTHS OF 50', EXCESS MATERIAL WILL EXIST AFTER ADJACENT DITCH IS FILLED TO FARM FIELD ELEV. IN THE AMOUNT OF $32 \text{ FT}^2 \times 50' = 1,600 \text{ FT}^3$. CONSTRUCTION TECHNIQUES FOR LEVEE DEGRADING & BREACHES WILL MOST LIKELY CALL FOR THE DIGGING TO OCCUR "ON THE WAY OUT", FROM WEST TO EAST. THIS EXTRA MATERIAL WILL BE PLACED ADJACENT TO LEVEE, ON TOP OF MATERIAL ALREADY PLACED IN FARM DITCH. SEE SKETCH ON NEXT SHEET.

35-243312001



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Subject: PLACEMENT OF CUT

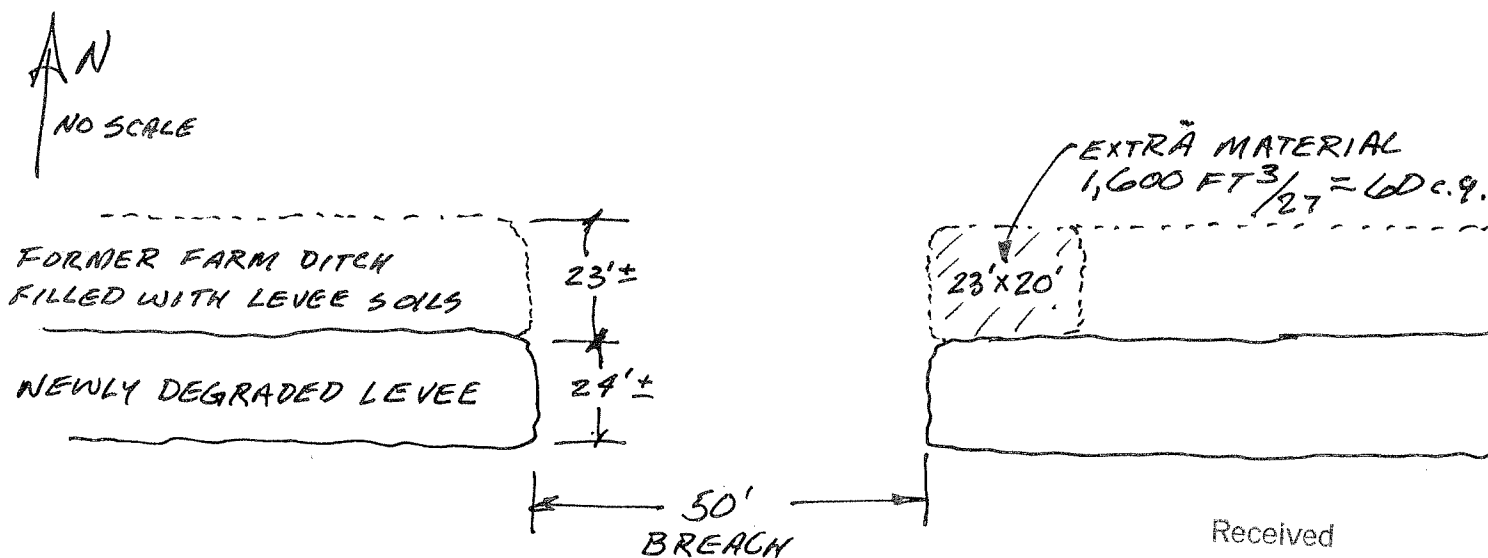
MATERIAL FROM BREACHES

Sheet: _____

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EXTRA MATERIAL WILL BE PRODUCED BY MAKING BREACHES $1\frac{1}{2}$ THAT WILL NOT "FIT" IN ADJACENT FARM DITCH. SINCE THE BREACHES ARE TO BE AS DEEP AS FORMER FARM FIELD, THE EXTRA MATERIAL MUST BE PLACED ELSEWHERE.



PLAN VIEW - LEVEE BREACH

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60.0 ±
TOP OF FORMER FARM
LEVEE BEFORE DEGRADING

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58.0
TOP OF LEVEE
AFTER DEGRADING

EXCESS
MATERIAL
FROM LEVEE
BREACH
20'x23' ±

EXTRA SPILL
SIZE IS
APPROXIMATELY
20'x23'x3.5'
(1,600 FT³ ±)

∴ DEPTH IS 54.0
PLUS 3.5' = 57.5'

FORMER FIELD DITCH
FILLED WITH LEVEE SOILS

54.0

BOTTOM OF NEW BREACH

PROFILE VIEW - LEVEE BREACH



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Subject: VOLUME CALCULATIONS

FOR CUT & FILL OF DEGRADE 1

Sheet: _____

Date: _____ 11-19-04

VOLUME CALCULATIONS — SECTION B-B

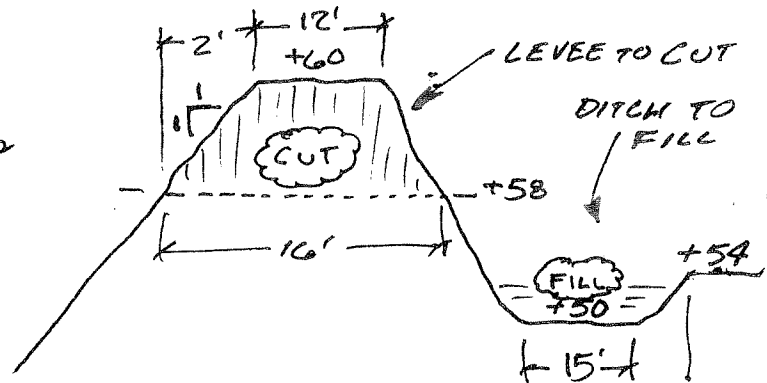
THE DEGRADED LEVEE IS TO BE PUSHED INTO ADJACENT FARM DITCH AS SHOWN ON CROSS-SECTIONAL VIEWS.

THESE CALCULATIONS EXAMINE THE CAPACITY OF THE DITCH AS COMPARED TO THE FILL BEING PLACED IN IT FOR DEGRADED 1 AREA.

CUT AREA:

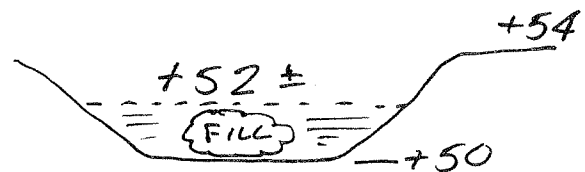
$$\frac{(2' + 12' + 2') + (12')}{2} \times (60 - 58) = 28 \text{ FT}^2$$

FOR EACH FT OF DEGRADING IN AREA 1, 28 FT³ OF MATERIAL WILL BE PLACED IN ADJACENT FARM DITCH FROM ELEV. 50 UP TO SOME ELEVATION.



IGNORING SIDESLOPE AREA OF EXISTING DITCH, THE FILL DEPTH IS;

$$28 / 15' \text{ BOTTOM} = \pm 2' \text{ WIDTH}$$



THEREFORE AMPLE VOLUME EXISTS IN ADJACENT DITCH.

TOTAL VOLUME OF CUT & FILL;

TWO AREAS TO DEGRADE, 1,200' + 5,600' = 6,800'

$$\frac{6,800' \times 28 \text{ FT}^2}{27} = 7,050 \text{ C.Y. } \pm$$

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$$\text{TOTAL AREA FILLED} = \frac{6,800' \times (15' + 2' + 2')}{43560} = \pm 3 \text{ ACRES.}$$

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Subject: VOLUME CALCULATIONS

FOR CUT & FILL OF DEGRADE

Sheet: _____

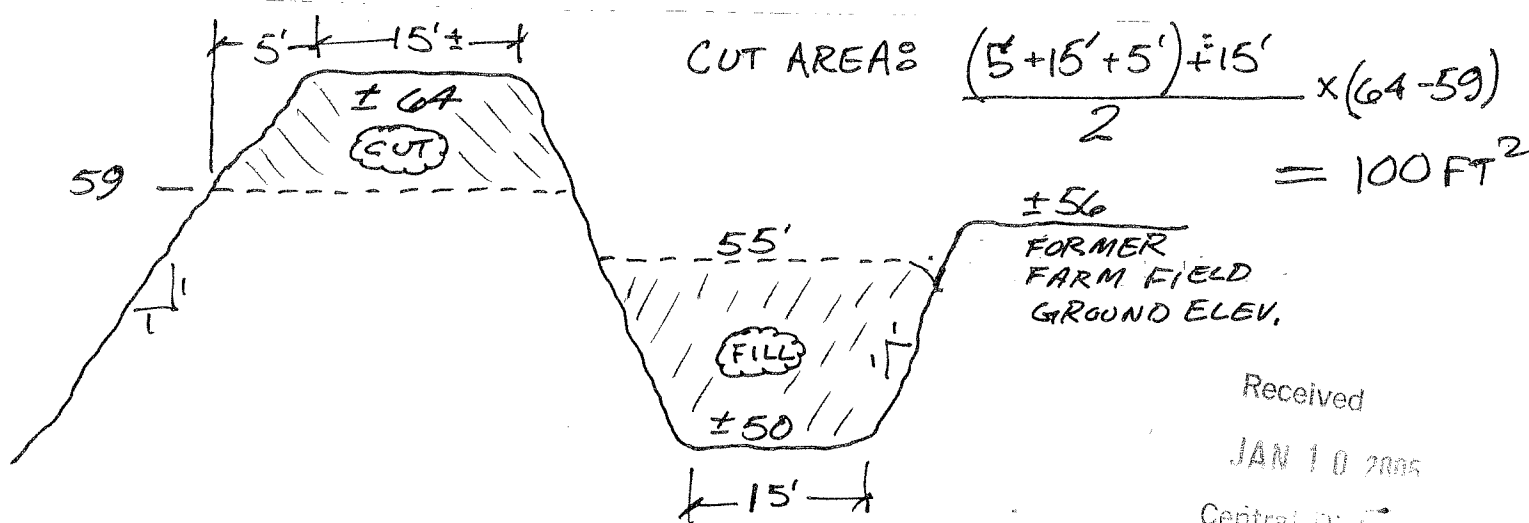
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 11-19-04

VOLUME CALCULATIONS — SECTION C-C

THE DEGRADED LEVEE IS TO BE PUSHED INTO ADJACENT FARM DITCH AS SHOWN ON CROSS-SECTIONAL VIEWS.

THESE CALCULATIONS EXAMINE THE CAPACITY OF THE DITCH AS COMPARED TO THE FILL BEING PLACED IN IT FOR DEGRADE 2 AREA.



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BECAUSE ADJACENT FARM DITCH IS APPROXIMATELY SAME SIZE AS LEVEE TO BE CUT, THE 5' CUT FROM TOP OF LEVEE EQUATES TO ±5' DEPTH OF FILL IN ADJACENT DITCH. THE FORMER FARM FIELD ELEVATIONS ARE HIGHER IN THIS VICINITY, ±56, THEREFORE THE DITCH BOTTOM OF 50 + FILL OF 5' = 55' ELEVATION OF TOP OF FILL.

TOTAL VOLUME OF CUT & FILL:

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$$\frac{2,500' \text{ LEVEE} \times 100 \text{ FT}^2}{27} = 9,260 \text{ C.Y.} \pm$$

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$$\text{TOTAL AREA FILLED} = \frac{2,500' \times (15' + 5' + 5')}{43560} = 1.5 \text{ ACRES}$$