



Project Correspondence

1724

FILE NUMBER: 4-09-0276A DATE: 12-4-92 DATE RECEIVED: 12-3-92

CORRESPONDENCE ROUTED IN: () PAL (X) ORL () JAX () MEL

RECEIPT NUMBER: _____

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GEN. CORR. INFO REQUEST COMPLIANCE INFO OBJECTOR
WITHDRAWAL REQUEST PERMIT DEFER. RAI RESPONSE DRI
EXT. REQUEST PERMIT TRANSFER RESPONSE COMMENTS

COMPLIANCE: AS-BUILTS OTHERS

PALATKA	ORLANDO	MELBOURNE	JACKSONVILLE
Hal Wilkening	Pat Frost	John Julianna	Larry Gerry
Dave Still	Karen Davis	Jennifer Orr	Edna Collins
Tim Sagul	Debra Brown	Gloria Armstrong	Osa Tillman
Mike Register	Rhonda Charbono	Linda Gooke	Marie Trimble
Allen Baggett	Michelle Ball	Janet White	Call Boone
			Melissa Cain
Carl Ingamell	Lillian Oquendo	Ralph Brown	Bill Wilson
Glenn Lowe	Shirlee Arrowood	Perry Jennings	Wendy Elmore
	Lucille Walsh	Fariborz Zanganeh	Jill Wild
	Chris Davies	Nabil Muhaisen	Everett Prye
Bob Epling	Joan Budzynski	Todd Gipe	Leslie Gore
Dar Guan Cheng	Cammie Dewey	Jennifer Cope	Cindy McKee
Lisa Grant	Rick Olesen	Michelle Reiber	
	Lance Bennett		Ken John
Heather Nixon	Roxi Pakzadian	Richard Burklew	Whitney Green
Barbara Hatchitt	Mary Brabham	Frank Foxworth	Helen Cortopassi
Karen Newman	Alex Alxool	Tom Terrell	Bill Bossnot
Sandy McGee	Bong Dycus		Wally Esser
		Janice Unger	
Larry Lee	Lance Hart	Eddie Carr	Jay Lawrence
Rick Levin	Liz Johnson	Garry Cook	J.C. Varnes
Carol Singleton	Dave Eunice		Mike Turner
Harris George	Pam Thomas		Merle Douthier
Jimmy Meeks	Letitia Neal		
Steve Peagin	Gabriella Milch		Carolyn Wlcz
Todd Eller	Lee Klascick		Catherine Varnes
Cheryl Astey			Dale Lovell
Andrew Mickle	Dave Dewey		Beth Ghiotto
	Deidre Irwin		Lee Ray
Gloria Roberson	Ken Torman		
Julie Green	Robin Harrell		Rocky Thompson
Deanna Adams	Kym Demora	Jeff Elledge	
	Lorne Malo	Nacul Whitney	Caroline Silvers
Perry Conas	Jay Dandenault	Christie James	
Jeanine Evans	Gary Cook	Susan Michael	Dave Miracle
J.J. Landry		Janis Nepshinsky	
Janet Stein			
Peggy White	Carol Fall	Linda Driggers	
	Victor McDaniel	Sandra Jones	
Lynn Minor		Barbara Clark	
Rosie Parker	Jim Frazee		
Nanci Tatum			
	Shannon Joyce		
Lori Dowdy	Louise Boland		
Marsha Baldwin	Lou Ann Edwards		
Elizabeth Parker	Marlin Reid		
Ann Keys	Ben Anderson		
Brenda Ward	Robert French		
Mary McKinney	Chris Sweazy		
Sandy Carrera			
Daniel Hornsby			
Bill Baggs			

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DEC 09 1992

PERMIT DATA SERVICES
Palatka

Vicki Curtis General Council: Other:
Shannon Barican
Jackie Lee
Quenteria Johnson

COMMENTS: 3 sets (1 Pg.) Plans, One set to Aylee and Dave.

Copied and Routed by: lo on 12/5/92 HC

December 2, 1992

Mr. Alex Aboodi, Engineer
Dept. of Resource Management
ST. JOHNS RIVER WATER MANAGEMENT DIST.
618 E. South Street, Suite 200
Orlando, FL 32801

Re: Greater Pines - Phase 1
Application No. 4-069-0276A
CPH Project No. G6765.01

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DEC 03 1992
4-069-0276A
RECORDS
ORLANDO

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Dear Alex:

In response to your verbal request of December 1, 1991, we are pleased to provide you with the following additional information on Greater Pines Phase 1:

PERMIT DATA SERVICES

- 1) Attached is a copy of a letter from the Lake County Engineering Director to you stating that Lake County will accept the drainage facilities in the above-referenced project.
- 2) Greater Construction will hand carry a letter to you on December 3, 1992 stating that as the Owners of the property adjacent to Greater Pines Phase 1 on which Pond No. 4 serving that subdivision is to be constructed, they have no objection to receiving the runoff from Greater Pines Phase 1 into that pond.
- 3) Attached is a copy of a letter to you from Sims and Associates stating the permeability test results for each one of the ponds. Please note that our pond recovery calculations were taken on Ponds No. 3 and 4 and the permeability found by Sims and Associates of 55' per day and 119' per day far exceed the 20" per hour used in that calculation. Thus, our calculation assumption of 20" per hour was very conservative. See Page No. 15 in the calculations already submitted to you.
- 4) Attached are three (3) prints of the post-development drainage plan, signed and sealed, that show the boundary set for Pond No. 4 as an off-site drainage easement, as well as the topography for that pond. Please note that it is our and the Owner's intention to use that pond for Phase 1 in its natural topography and in fact, that topography was used in the drainage calculations and recovery calculations previously submitted.

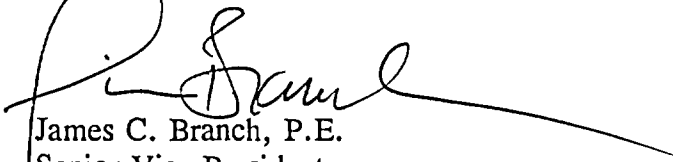


Mr. Alex Aboodi, Engineer
December 2, 1992
Page -2-

Please review the above information and let us know immediately if it does not meet all of your requirements. We appreciate you putting this permit application on the January Board for approval. Please call if you have any questions.

Happy Holidays,

CONKLIN, PORTER AND HOLMES ENGINEERS, INC.


James C. Branch, P.E.
Senior Vice President

JCB/tlb

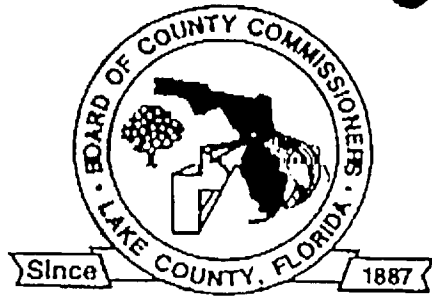
xc: Jim Bible, P.E. - Greater Construction

1202ltr2.tlb



DEPARTMENT OF
PUBLIC WORKS
123 N. SIMONSON AVE.
TAVARES, FLORIDA 32778-3229

(004) 343-0656
SUNCOM 850-1655
FAX 343-9506



SPECIAL SERVICES DIVISION
ROAD OPERATIONS DIVISION
PARKS & FACILITIES DIVISION

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4-069-0276A
RECORDS
ORLANDO

December 2, 1992

Mr. Alex Aboodi, Engineer
St. Johns River Water Management District
618 East South Street, Suite 200
Orlando, Florida 32801

Re: Greater Pines - Phase 1

Dear Mr. Aboodi:

This letter is in response to your request for a letter from a "duly authorized agent of Lake County" stating that the County will maintain the drainage facilities in the above referenced project.

The developer has indicated that he will dedicate the roads and drainage facilities to the County. The County will maintain those facilities that are within the right-of-way and directly adjacent to the right-of-way, if the construction meets County approval and after a two (2) year maintenance period in which the developer will be required to maintain the facilities. However, be advised that County maintenance is for functional purposes only. Additionally, we will only maintain drainage facilities which handle run-off from publicly dedicated, County maintained roads.

If you have any questions, please feel free to call my office.

Sincerely,

Donald A. Griffey, P.E.
Engineering Director

DAG:jmc

c: James C. Branch, P.E., Conklin, Porter and Holmes Engineers, Inc.



Michael D. Sims & Associates, Inc.
 Consulting Engineers in the Earth Sciences, Geotechnology,
 Hydrogeology and Construction Materials Testing

(407) 297-0192
 Fax (407) 297-0075

December 2, 1992

St. Johns River Water Management District
 618 E. South Street, Suite 200
 Orlando, Florida 32801

DEC 03 1992
 4-069-0276A
 RECORDS
 ORLANDO

Attention: Mr. Alex Aboodi

Subject: PERMEABILITY TEST RESULTS, GREATER PINES, PHASE I, LAKE
 COUNTY, FLORIDA (PN 92-501.22)

Dear Mr. Aboodi:

Michael D. Sims & Associates, Inc. has performed permeability tests within the soils encountered within the four (4) retention pond areas. The subsurface soil and groundwater conditions were previously investigated and are contained within the report entitled, "Subsurface Soil Investigation, Greater Pines, Phase I, Lake County, Florida (PN 92-501.22)", dated July 28, 1992. The results of this previous investigation, as well as the additional investigation performed within the retention ponds, indicate that the soil profile consists of "clean" fine sands within the upper portion of the profile (upper 10 to 15 feet) that gradually grades into slightly silty fine sands with depth (15 to 20 feet).

The results of the permeability tests are shown on the following table. Also included are the proposed pond bottom elevations, the existing ground elevations at the boring locations and the elevations which the permeability tests were performed.

<u>Retention Pond</u>	<u>Bottom Elev. (MSL)</u>	<u>*Ground Elev. at Boring (MSL)</u>	<u>Permeability Test Elev. (MSL)</u>	<u>Permeability (ft/day)</u>
1	164	173	160	18
2	138	154	135	10
3	132	134	130	55
4	132	132	129	119

* Interpreted from topographic data provided by Conklin Porter & Holmes Engineers, Inc.

If you have any questions, please do not hesitate to contact this office.

Sincerely,

MICHAEL D. SIMS & ASSOCIATES, INC.

LaDora A. Lacy

LaDora A. Lacy, E.I.
 Assistant to the President
 LAL/WRS/dmk

cc: Mr. Jim Bible (Greater Construction)
 Mr. Jim Branch (Conklin Porter & Holmes)

William R. Shestak
 WILLIAM R. SHESTAK
 WILL 12-2-92
 William R. Shestak, P.E.
 Vice President
 Florida Registration No. 24045

FILE NUMBER: 40-0276A DATE: 12-4-92 DATE RECEIVED: 12-3-92

CORRESPONDENCE ROUTED IN: () PAL () ORL () JAX () MEL

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GEN. CORR. INFO REQUEST COMPLIANCE INFO DIRECTOR
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 EXT. REQUEST PERMIT TRANSFER RESPONSE COMMENTS

COMPLIANCE: AS-BUILTS OTHERS

<u>PALATKA</u>	<u>ORLANDO</u>	<u>MELBOURNE</u>	<u>JACKSONVILLE</u>
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<input type="checkbox"/> Lynn Minor	<input type="checkbox"/> Gary Cook	<input type="checkbox"/> Louie Roland	<input type="checkbox"/> Bill Baggs
<input type="checkbox"/> Rosie Parker	<input type="checkbox"/> Carol Fall	<input type="checkbox"/> Lou Ann Edwards	<input type="checkbox"/> Vicki Curtis
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<input type="checkbox"/> Brenda Ward	<input type="checkbox"/> Marlin Reid		
	<input type="checkbox"/> Ben Anderson		
	<input type="checkbox"/> Robert French		

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DEC 7 1992

PERMIT DATA SERVICES
Palatka

General Council: _____ Other: _____

COMMENTS: _____

Copied and Routed by: LD on 12/4/92



December 2, 1992

St. Johns River Water Management District
 618 E. South Street, Suite 200
 Orlando, Florida 32801

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 DEC 7 1992

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 DEC 03 1992
 4-069-0276 A
 RECORDS
 ORLANDO

Attention: Mr. Alex Aboodi

PERMIT DATA SERVICES

Subject: PERMEABILITY TEST RESULTS, ^{Palatka} GREATER PINES, PHASE I, LAKE COUNTY, FLORIDA (PN 92-501.22)

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If you have any questions, please do not hesitate to contact this office.

Sincerely,

MICHAEL D. SIMS & ASSOCIATES, INC.

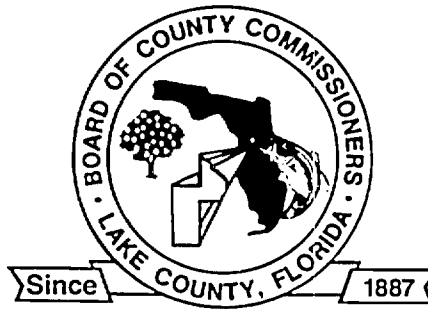
LaDora A. Lacy
 LaDora A. Lacy, E.A.
 Assistant to the President
 LAL/WRS/dmk

William R. Shestak
 12-2-92
 William R. Shestak, P.E.
 Vice President
 Florida Registration No. 24045

cc: Mr. Jim Bible (Greater Construction)
 Mr. Jim Branch (Conklin Porter & Holmes)

DEPARTMENT OF
PUBLIC WORKS
123 N. SINCLAIR AVE.
TAVARES, FLORIDA 32778-3229

(904) 343-9655
SUNCOM 659-1655
FAX 343-9596



SPECIAL SERVICES DIVISION
ENGINEERING DIVISION
ROAD OPERATIONS DIVISION
PARKS & FACILITIES DIVISION

December 2, 1992

Mr. Alex Aboodi, Engineer
St. Johns River Water Management District
618 East South Street, Suite 200
Orlando, Florida 32801

Re: Greater Pines - Phase 1

Dear Mr. Aboodi:

This letter is in response to your request for a ~~letter~~ permit from a "duly authorized agent of Lake County" stating that the County will maintain the drainage facilities in the above referenced project.

The developer has indicated that he will dedicate the roads and drainage facilities to the County. The County will maintain those facilities that are within the right-of-way and directly adjacent to the right-of-way, if the construction meets County approval and after a two (2) year maintenance period in which the developer will be required to maintain the facilities. However, be advised that County maintenance is for functional purposes only. Additionally, we will only maintain drainage facilities which handle run-off from publicly dedicated, County maintained roads.

If you have any questions, please feel free to call my office.

Sincerely,

Donald A. Griffey, P.E.
Engineering Director

DAG:jmc

c: James C. Branch, P.E., Conklin, Porter and Holmes Engineers,
Inc.

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DEC 7 1992

DEC 03 1992
4-069-0276A
RECORDS
ORLANDO

FILE NUMBER: 4-9-0276A DATE: 12-4-92 DATE RECEIVED: 12-3-92

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P

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GEN. CORR. INFO REQUEST COMPLIANCE INFO OBJECTOR
WITHDRAWAL REQUEST PERMIT DEFER. RAI RESPONSE DRT
EXT. REQUEST PERMIT TRANSFER RESPONSE COMMENTS

COMPLIANCE: AS-BUILDING OTHERS

PALATKA	ORLANDO	MELBOURNE	JACKSONVILLE
___ Hal Wilkening	___ Pat Frost	___ John Julliana	___ Larry Gerry
___ Dave Still	___ Karen Davis	___ Jennifer Orr	___ Edna Collins
___ Tim Sagul	___ Debra Brown	___ Gloria Armstrong	___ Osa Tillman
___ Mike Register	___ Rhonda Charlton	___ Linda Cooke	___ Marie Trimble
___ Allen Baggett	___ Michelle Ball	___ Janet White	___ Gail Boone
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___ Lisa Grant	___ Joan Budzynski	___ Todd Gipe	___ Everett Frye
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___ Vicki Curtis	General Council:		
___ Shannon Barican	_____		
___ Jackie Lee	_____		
___ Quenteria Johnson	_____		

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12 / 92

PERMIT DATA SERVICES
Palatka
Other:

COMMENTS: _____

Copied and Routed by: *SO* on 12/4/92



THE GREATER CONSTRUCTION CORPORATION

December 2, 1992

Mr. Alex Aboodi
St. Johns River Water Management District
618 South Street
Suite 200
Orlando, Florida 32801

Re: Off-Site Drainage Easement
Greater Pines - Phase 1

Dear Mr. Aboodi:

The purpose of this letter is to state that as the overall property owner of the Greater Pines property, we have no objection to creation of an off-site drainage easement on our land immediately south of Greater Pines Phase 1 to act as a temporary retention facility for runoff from Phase 1 of Greater Pines. We expect when future sections of Greater Pines are designed and permitted and constructed, that this area will be converted into a permanent retention area. At this juncture, however, our plans for the future phases are not sufficiently detailed to build this pond in its permanent configuration. We request, therefore, that the District permit the use of this pond as a temporary easement on our land.

Please call me or Jim Branch at Conklin, Porter and Holmes Engineers if you have any questions concerning the above.

Very truly yours,

James J. Bible
James J. Bible, P.E.
Vice President

JJB:gmr

cc: Jim Branch

RECEIVED

DEC 03 1992

4-069-0276A

RECORDS
CREATED

RECEIVED

DEC 17 1992

PERMIT DATA SERVICES
Palatka

FILE NUMBER: 4-069-0276A DATE: 11-19-92 DATE RECEIVED: 11-16-92

CORRESPONDENCE ROUTED IN: () PAL (X) ORL () JAX () MEL

P

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GEN. CORR. INFO REQUEST COMPLIANCE INFO OBJECTOR
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 EXT. REQUEST PERMIT TRANSFER RESPONSE COMMENTS

COMPLIANCE: AS-BUILDS OTHERS

<u>PALATKA</u>	<u>ORLANDO</u>	<u>MELBOURNE</u>	<u>JACKSONVILLE</u>
<input type="checkbox"/> Hal Wilkening	<input type="checkbox"/> Pat Frost	<input type="checkbox"/> John Julliana	<input type="checkbox"/> Larry Gerry
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<input type="checkbox"/> Harris George	<input type="checkbox"/> Lance Hart	<input type="checkbox"/> Garry Cook	<input type="checkbox"/> Jay Lawrence
<input type="checkbox"/> Jimmy Meeks	<input type="checkbox"/> Liz Johnson	<input type="checkbox"/> Jeff Elterge	<input type="checkbox"/> J.C. Varnes
<input type="checkbox"/> Steve Feagin	<input type="checkbox"/> Pam Thomas	<input type="checkbox"/> Nacmi Whitney	<input type="checkbox"/> Mike Turner
<input type="checkbox"/> Todd Eller	<input type="checkbox"/> Letitia Neal	<input type="checkbox"/> Christie James	<input type="checkbox"/> Merle Douthner
<input type="checkbox"/> Cheryl Astley	<input type="checkbox"/> Gabriella Milch	<input type="checkbox"/> Susan Michael	<input type="checkbox"/> Carolyn Wlcz
<input type="checkbox"/> Andrew Mickle	<input type="checkbox"/> Lee Kissick	<input type="checkbox"/> Janis Nepshinsky	<input type="checkbox"/> Catherine Varnes
<input type="checkbox"/> Gloria Roberson	<input type="checkbox"/> Dave Dewey	<input type="checkbox"/> Linda Driggers	<input type="checkbox"/> Dale Lovell
<input type="checkbox"/> Julie Green	<input type="checkbox"/> Deidre Irwin	<input type="checkbox"/> Sandra Jones	<input type="checkbox"/> Beth Ghiotto
<input type="checkbox"/> Deanna Adams	<input type="checkbox"/> Ken Roman	<input type="checkbox"/> Barbara Clark	<input type="checkbox"/> Lee Ray
<input type="checkbox"/> Perry Conas	<input type="checkbox"/> Robin Harrell	<input type="checkbox"/> Jim Frazee	<input type="checkbox"/> Rocky Thompson
<input type="checkbox"/> Jeannine Evans	<input type="checkbox"/> Kym Demora	<input type="checkbox"/> Shannon Joyce	<input type="checkbox"/> Caroline Silvers
<input type="checkbox"/> J.J. Landry	<input type="checkbox"/> Lorne Malo	<input type="checkbox"/> Louie Roland	<input type="checkbox"/> Dave Miracle
<input type="checkbox"/> Janet Stein	<input type="checkbox"/> Jay Dandenault	<input type="checkbox"/> Lou Ann Edwards	
<input type="checkbox"/> Peggy White	<input type="checkbox"/> Gary Cook	<input type="checkbox"/> Marlin Reid	
<input type="checkbox"/> Lynn Minor	<input type="checkbox"/> Carol Fall	<input type="checkbox"/> Ben Anderson	
<input type="checkbox"/> Rosie Parker	<input type="checkbox"/> Victor McDaniel	<input type="checkbox"/> Robert French	
<input type="checkbox"/> Nanci Talum	<input type="checkbox"/> Jim Frazee	<input type="checkbox"/> Chris Sweazy	
<input type="checkbox"/> Lori Dowly	<input type="checkbox"/> Shannon Joyce		
<input type="checkbox"/> Marsha Baldwin	<input type="checkbox"/> Louie Roland		
<input type="checkbox"/> Elizabeth Parker	<input type="checkbox"/> Lou Ann Edwards		
<input type="checkbox"/> Ann Keys	<input type="checkbox"/> Marlin Reid		
<input type="checkbox"/> Brenda Ward	<input type="checkbox"/> Ben Anderson		
<input type="checkbox"/> Mary McKinney	<input type="checkbox"/> Robert French		
<input type="checkbox"/> Sandy Carriera			
<input type="checkbox"/> Daniel Hornsby			
<input type="checkbox"/> Bill Baggs			

RECEIVED

NOV 23 1992

PERMIT DATA SERVICES

Palatka
 Jeff Elterge
 Nacmi Whitney
 Christie James
 Susan Michael
 Janis Nepshinsky

General Council: _____

Other: _____

COMMENTS: 3 sets revised plans (1 page); 3 sets revised
sales; 1 to Alex; 1 to Dave

1 Binder - Copy Alex

Copied and Routed by: U on 11/19 SS

To _____
 From _____
 Date _____

J. C. Grand
 1/92
 NOV 11 1992
 RECORDS
 11/12/92

Job Name Greeter Pines phase I Job No. 4-069-0276A
 Subject Drainage Analysis Sheet No. RECORDS 11/12/92

REVISION 11.10.92

Retention Pond # 3 & 4
 The area contributing directly to Retention Pond # 3 (basin 300) =

offsite from North = 4.3 ac.

1/2 Hancock Rd R/W = 2.6 ac.

Onsite 35.1 ac.

portion of phase II = 14.4 ac.
 56.4 ac.

Impervium = 38.5 lots @ 3060 sf/lot = 2.7 ac.

Hancock Rd impervium 4660' x 18' = 1.9 ac.

Onsite impervium pavement = 3.0 ac.

permeation on-site grass/lawns = 29.4 ac

permeation off-site = 19.4 ac.

Compute permeation CN:

NDCIA = 2.7 ac + 1.7 ac = 4.4 ac @ 98 = 431.20

permeation grass/lawns 29.4 ac @ 39 = 1146.6

permeation off-site 19.4 ac @ 43 = 834.20

53.2 ac 2412.0

CN = $\frac{2412}{53.2} = 45.3$

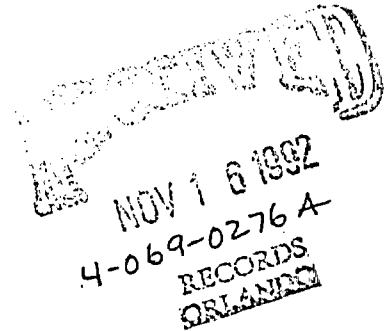
TC = 45.0 min. % DCIA = 5.7%

November 12, 1992

Conklin, Porter and Holmes
ENGINEERS, INC.
500 W. FULTON STREET
POST OFFICE BOX 2808
SANFORD, FLORIDA 32772-2808
TEL 407-322-6841 TEL 407-831-5717
FAX #407-330-0639

Mr. Alex Aboodi, Engineer
Dept. of Resource Management
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
618 E. South Street, Suite 200
Orlando, FL 32801

Re: Greater Pines - Phase 1
Application No. 4-069-0276A
CPH Project No. G6765.01



Dear Alex:

We are in receipt of the RAI letter dated November 2, 1992 and offer the following in response to each of the items:

- 1) The Treatment Facility is an on-line treatment system. Please note that on Sheet No. 15 of the drainage calculations the volume for 1½" of runoff is below Elevation 135. This volume represents the entire volume required for 1½" runoff for a basin of 102.1 acres. Also, please note that there is storage with no discharge to elevation 138. There is also upstream storage which is not included in this figure for Pond No. 3 and 4 which is the last storage area prior to the event of any discharge from Phase 1. From our review, Chapter 40C-42 does not state that interconnected basins on-site require water quality requirements in each individual basin. The basins in Phase 1 are interconnected. For that reason, Pond No. 3 and 4 volume is sized to hold the 1½" runoff volume which is greater than the required 1" for on-line retention. Please note on Sheet No. 15 of the drainage calculations that the recovery rate is two hours. This is based on a percolation rate of 20" per hour (see Sheet No. 5 of the drainage calculations for methodology used for the average drawdown calculation).

Our Soils Consultant (Sims and Associates) confirms that 20"/hr for this soil is a conservative assumption.

- 2) Infiltration is based on 20 inches per hour as recommended by the soils conservation service and a water table greater than 10 foot (see Sheet No. 5). Chapter 40C-4.301(2)(a) 1, 2, 3, 4 F.A.C. does not specifically disallow the use of percolation during routing of the storm event. The worst case drawdown rate to meet the 36-hour period would be 4½ cfs over a 6.3 acre area.
- 3) Sims and Associates has stated that a double ring infiltrometer test on this site would not be practical. It would be impossible to supply enough water quickly enough to keep the saturated zone wet due to the natural high soils permeability.



Mr. Alex Aboodi, Engineer
November 12, 1992
Page -2-

A copy of the soils report with borings indicated is attached. Note that no groundwater table was encountered in any boring in Phase 1.

- 4) Retention Pond No. 4 and Retention Pond No. 3 area is all included as part of Basin 300 and was not intended to be a separate retention pond, that is the two ponds will coalesce its water level uses. The south side of Pond No. 4 is intended to be left in a natural condition for Phase 1.
- 5) The paperwork is in the review process and will be forwarded when available. The Power Company contact person is Robert Clark, Right-of-Way Utility Engineer, at (407) 646-8575.
- 6) Silt fence location is noted on the grading plan.
- 7) The pre-post hydrograph and routing provided is for the 25-year/96-hour event with a peak stage of 135.28 and 15.3 acre foot volume. The total volume available is 39½ acre feet and this greatly exceeds the requested 25-year/24-hour and 10-year/24-hour pre-post requirements; thus, we do not feel that additional hydrograph and routing calculations are needed.
- 8) The letter of maintenance has been requested from Lake County and will be submitted upon receipt.
- 9) Hydraulic calculations for the storm sewer system are attached; however, Chapter 40C-4.301(1)(a) 6, 9 does not make reference to this as being a required submittal.
- 10) Retention Pond No. 4 is part of Basin 300. This area and volume figures are included with Pond No. 3. We have revised Sheet 14 of the calculations which should clarify this. An easement will be dedicated for this area.

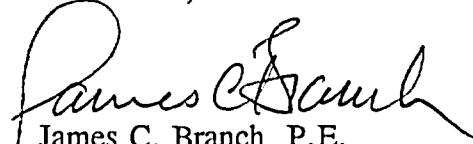


Mr. Alex Aboodi, Engineer
November 12, 1992
Page -3-

We respectfully request that the above information be accepted and the system be approved. If we can provide further assistance, please advise.

Sincerely,

CONKLIN, PORTER AND HOLMES ENGINEERS, INC.


James C. Branch, P.E.
Senior Vice President

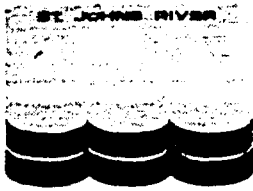
JCB/tlb

xc: Jim Bible, P.E. - Greater Construction

1106ltr4.tlb



recycled paper



**WATER
MANAGEMENT
DISTRICT**

Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904/329-4500 SUNCOM 904/860-4500
FAX (EXECUTIVE/LEGAL) 329-4125 (PERMITTING) 329-4315 (ADMINISTRATION/FINANCE) 329-4508

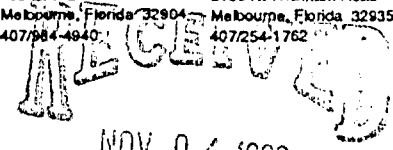
FIELD STATIONS

618 E. South Street 775 Baymeadows Way PERMITTING: OPERATIONS:
Orlando, Florida 32801 Suite 102 305 East Drive 2133 N. Wickham Road
407/894-5423 Jacksonville, Florida 32256 Melbourne, Florida 32904 Melbourne, Florida 32835-8109
407/884-4940 407/254-1762

November 2, 1992

CERTIFIED MAIL NO. P 254 253 434

Mr. James C. Branch, P.E.
Conklin, Porter & Holmes, Inc.
P.O. Box 2808
Sanford FL 32772-2808



NOV 04 1992

PERMIT DATA SERVICES
Palatka

Re: Greater Pines Phase I; Application No. 4-069-0276A
(Please reference the above number on any submittal)

Dear Mr. Branch:

The St. Johns River Water Management District has received your Application for a Management and Storage of Surface Waters Individual Permit. Upon preliminary review of the proposed project, the following technical information is required to sufficiently review the possible impacts the project may have on the surrounding area. This information is being requested pursuant to the authority vested in the St. Johns River Water Management District under Paragraph 373.413(2)(h), Florida Statutes (F.S.) and Sections 40C-4.101 and 40C-4.301, Florida Administrative Code (F.A.C.).

Please submit 3 sets of the following information:

1. Please provide calculations demonstrating that the required stormwater treatment will be provided. It appears that the treatment facility is an on-line treatment system. An additional volume will be required. Calculations must demonstrate compliance with Chapter 40C-42, F.A.C. for each drainage basin. Also demonstrate that the required treatment volume will recover within 72 hours following a storm event. [40C-4.301(1)(a)9., F.A.C.]
2. Please demonstrate how infiltration during the storm event was taken into account. The District recommends that permeability be taken in the field and reduced 75 percent from the measured values prior to entering these values. Also, the operation and maintenance entity will be responsible to take permeability test periodically after the construction of the ponds to ensure that the design rates are achieved. The District does not recommend the use of percolation during routing of the storm event. [40C-4.301(2)(a)1., 2., 3., 4., F.A.C.]
3. Please provide in-situ hydraulic conductivity results for borings within the proposed surface water management facilities. A double-ring infiltration test is recommended to obtain hydraulic conductivity results. Please provide a soil boring within the proposed treatment system. The soil boring

Joe E. Hill, CHAIRMAN LEESBURG	Joseph D. Collins, VICE CHAIRMAN JACKSONVILLE	Jesse J. Parrish, III, TREASURER TITUSVILLE	Lenore N. McCullagh SECRETARY ORANGE PARK
Merritt C. Fore OCALA	Ralph E. Simmons FERNANDINA BEACH	Saundra H. Gray DE BARY	Patricia T. Harden SANFORD
			James H. Williams OCALA

- must be taken within the location of the treatment system, extending either 6 feet below the existing grade or 5 feet below the bottom of the retention pond, whichever is greater, to verify the groundwater table during the wet season and the soil permeability rate. The retention pond bottom should be a minimum of two feet above the seasonal high ground water table or a seepage analysis must be provided to demonstrate pond recovery. No volume will be accounted below the seasonal high groundwater table. Submit any revised calculations and plans. [40C-4.301(2)(a)1., 2., 3., 4., F.A.C.]
4. The construction plans appear to be incomplete for Pond 4 of the proposed surface water management system. Please provide additional details of Pond 4. [40C-4.301(1)(a); (2)(a), F.A.C.]
 5. Plans indicate that portions of the surface water management system will be placed within an existing utility easement. Please provide documentation from the appropriate utility entity that allows the use of this area for the surface water management system. [40C-4.301(1)(a)6., F.A.C.]
 6. Please indicate, on construction plans, the methods to be used during and after construction to prevent the off-site discharge of turbid water and eroded soils. [40C-4.301(1)(a)9., F.A.C.]
 7. Provide a hydrograph and routing calculations for pre and post-development conditions. The post-development outflow rate of discharge must not exceed the pre-development outflow rate of discharge for the 25 year/24 hour and 10-year/24-hour storm events. [40C-4.301(2)1.,2.,3.,4.,6., F.A.C.]
 8. It appears that Lake County will be responsible for operation and maintenance of the surface water management system. Provide written proof in the appropriate form that such an acceptable entity will accept the operation and maintenance of the stormwater management system at a time certain in the future. The documentation furnished should indicate which portion(s) of the system Lake County will maintain. If a Homeowner's Associations will maintain any portion of the system, please submit copies of the draft Articles of Incorporation and Declaration of Covenants and Restrictions which establish the association. The documents will be reviewed by the District's General Counsel and you will be notified if they are acceptable for recording. These documents must be approved by the District prior to permit issuance. [40C-4.301(1)(a)6.,10.; 40C-42.027, F.A.C.; 7.1., A.H.]
 9. Please provide hydraulic calculations to verify the size of storm sewer pipes, velocity of the pipe, length of the pipes and inflow discharge to the proposed treatment system. Submit any calculations and plans. [40C-4.301(1)(a),6.,9., F.A.C.]

10. It appears that the retention pond number 4 is not located within the property boundary line. Please provide a drainage easement or any other appropriate document to authorize this activity on off-site of property. In addition, an off-site drainage easement must be provided for the runoff leaving the proposed treatment system. [40C-4.301(1)(a),6., F.A.C.]

In accordance with Section 120.57, F.S. if the applicant desires to dispute the necessity for any information requested on an application form or at a pre-application conference, the applicant may do so at a regularly scheduled regulatory meeting of the Governing Board. An applicant should submit a written request to present evidence regarding such dispute at least 21 days prior to the regulatory meeting at which the applicant plans to present the evidence.

Please be advised, pursuant to Subsection 40C-1.605(5), F.A.C., any application which has not been technically completed within sixty (60) days from the date of receipt of a request for additional information by the District, will be prepared for an Intent to Deny at the next timely Governing Board meeting. If you require more than the allotted sixty (60) days, please indicate this to the staff.

In addition, no construction, including land clearing, shall begin on the proposed project until a permit is issued by the St. Johns River Water Management District. This is pursuant to Subsection 40C-4.041(1), F.A.C., which states, "unless expressly exempt by Statute or rule, a surface water management permit must be obtained from the District prior to the construction, alteration, operation, maintenance, removal or abandonment of any dam, impoundment, reservoir, appurtenant work or works."

If you have any questions, please call this office at (407) 897-4344.

Sincerely,



Alex Aboodi, Engineer
Department of Resource Management

AA:rc

cc: Vicki Curtis (#4-069-0276A)
Pat Frost
Joan B. Budzynski, P.E.
David Eunice

Robert A. Mandell
The Greater Construction Corporation
P.O. Box 3873
Longwood FL 32791