

MINING SITE PLAN AMENDMENT
FOR
HAWTHORNE PROPERTIES, LTD.

(F/K/A Bishop & Buttrey, Inc.)
Excavation Project

MSP #96/2/2-2

Prepared For:

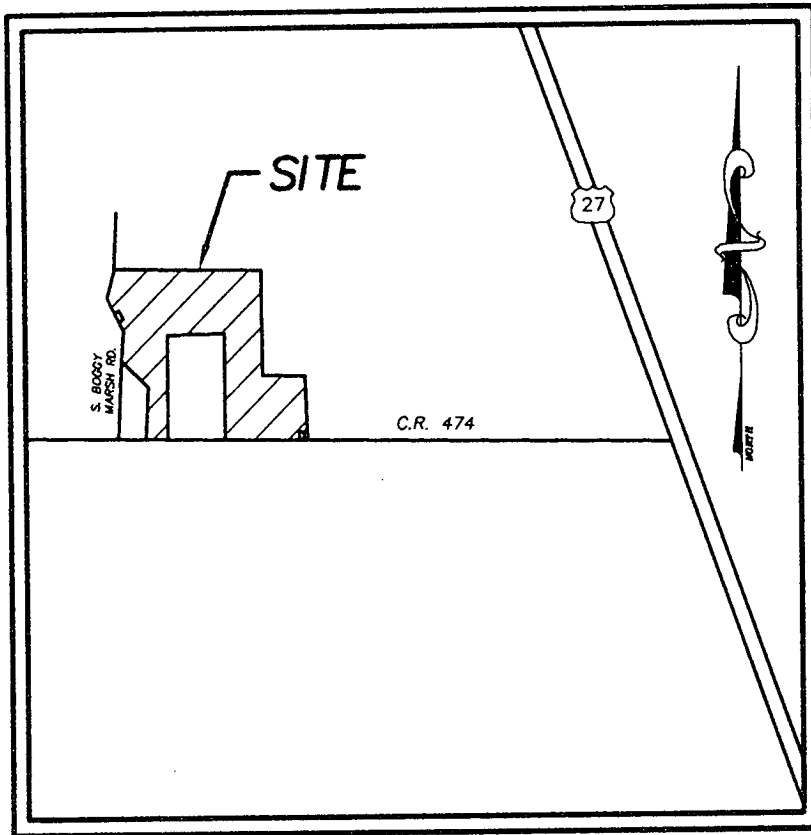
Hawthorne Properties, Ltd.
Post Office Box 289
Windermere FL 34786
(407) 858-0808

Prepared By:

Wicks Consulting Services, Inc.
225 West Main Street
Tavares FL 32778
(352) 343-8667

July 24, 2001
Revised August 10, 2001

Wicks
8/30/01



LOCATION MAP
SCALE: 1"=2000'

Mining Site Plan Amendment
Hawthorne Properties, Ltd.

Introduction

Mining Site Plan approval for the Bishop & Buttrey Excavation Project was granted by Lake County under MSP #96/2/2-2. A subsequent Operating Permit was issued April 11, 1996 for the project. The project involves the removal of clean sands and clay soils from the site for use in local construction projects. The removal of the soil was planned and conducted to conform to the final grading plan for the Pot of Gold Subdivision. The subdivision was proposed to be constructed as the major component of the project Reclamation Plan.

The purpose of this amendment is to eliminate the construction of the subdivision and to create a recreational lake. Final project reclamation will include the recreational lake with the remainder of the area returned to open space.

The land area encompassed by the approved MSP is currently under the ownership of Hawthorne Properties, Ltd. and Bishop and Buttrey, Inc. The property owned by Bishop and Buttrey, Inc. is not included in the requested amendment. It will be handled separately from this request.

SECTION 1

APPLICATIONS

LAKE COUNTY MINING AND EXCAVATION SITE PLAN APPLICATION FORM
AMENDMENT

For Office Use Only: Application No. _____ District No. ____ Fee _____ Receipt No. _____

GENERAL INFORMATION

Hawthorne Properties, Ltd.
Mine or Project Name

North side of CR 474 -- Approximately 1 mile west of US Hwy 27
Location of Mine or Project

Sec 22 & 27 Twp 24 S Rge 26 E

Removal of excess overburden -- clean sand and clayey sands & creation of a recreational lake
Type of Mining Activity

Active Mine MSP #96/2/2-2 Operating Permit #95-12-97OP
Present Use and Zoning of Property

1. OWNER

Hawthorne Properties, Ltd. (407) 296-0016
Name Telephone No.

See enclosed information
Address

2. OPERATOR OR APPLICANT

Hawthorne Properties, Ltd.
Name Telephone No.

P. O. Box 289 Windermere FL 34786
Address

3. PROPOSED DATES OF COMMENCEMENT AND COMPLETION OF MINING

Currently active Mine

4. LEGAL DESCRIPTION OF MINE OR PROJECT

Parent Tract See attached Exhibit A

The requested amendment does not include the Bishop & Buttrey property ownership.

The following additional information is provided in compliance with Chapter 6.06.03 of the Lake County Land Development Regulations and tracks both the language of the Code and the checklist included in Appendix A.

5. Ownership of all property within three hundred (300) feet of the property included in the Mining Site plan application has been researched. The ownership records and information was obtained from the Lake County Property Appraiser's Office. The ownership information is included as part of the application for Mining Site Plan Amendment, Appendix A, of this report.
6. During the excavation and site reclamation process, no buildings are proposed. The access driveway to the project is shown on the project plans. A land use map and aerial photograph is also enclosed. There are no existing buildings on the project site.
7. A traffic analysis was submitted as part of the original Mining Site Plan. No increase in project traffic is proposed.
8. The sanitary wastewater needs of the project will continue to be met via portable toilet facilities and containerized drinking water. These facilities are adequate since no permanent structure or residences are proposed. No hazardous materials will be stored or used on site. The earth moving equipment is fueled and services by a transient service vehicle, consequently, no fuel is stored on the project site.
9. A permit has been obtained from the St. Johns River Water Management District for the project. This permit will be modified to reflect the changes in the Reclamation Plan.
10. There are approximately 3 acres of wetlands on site. A Land Use and Cover Classification Map was previously submitted as part of the Mining Site Plan. There are no wetland alterations proposed as part of this project.
11. The upland areas were also identified on the FLUCCS map. A total of 78 acres of upland soils have been identified within the project. The uplands historically consisted of relic citrus lands. An aerial photograph is enclosed to show current site conditions.

Reclamation is now proposed to create a recreational lake and open space.
12. Project plans were included in the original Site Plan and Operating Permit. Revised plans are enclosed which shown the revised project.
13. The Mining Site Plan was approved for 47 acres including the buffer zones. (36 acres of extraction and 12 acres of setbacks). Overburden or unsuitable

materials will be stockpiled within the mining area and retained for use during the reclamation process. A waterbody will now be created as part of the project reclamation. Plan views and cross sections are enclosed.

14. The project has been approved for two (2) phases.
15. A cross-sectioned drawing was previously included in the Hydrogeologic Report. This information is not included in this report.
16. A Hydrogeologic Report was submitted as part of the original Mining Site Plan.
17. An Environmental Report was submitted as part of the original Mining Site Plan.
18. A revised Reclamation Plan is enclosed.
19. The project Reclamation Plan involves the creation of a recreational lake and open space.
20. No additional site specific information is submitted at this time.

Lake County, Florida
DEPARTMENT OF GROWTH MANAGEMENT

MINING SITE PLAN AMENDMENT

PUBLIC HEARING NUMBER: _____

STAFF PLANNER INTL: _____

DATE: _____

FILING FEE: _____

(1) PROJECT NAME: Hawthorne Properties, Ltd. (f/k/a Bishop & Buttrey, Inc. Excavation Project)

OWNER'S NAME: Charles E. Hawthorne

COMPLETE MAILING ADDRESS: P. O. Box 289 Windermere FL 34786

TELEPHONE NUMBER: (407) 858-0808 E-Mail Address _____

(2) APPLICANT'S NAME: Charles E. Hawthorne

COMPLETE MAILING ADDRESS: P. O. Box 289 Windermere FL 34786

TELEPHONE NUMBER: (407) 858-0808 E-Mail Address _____

(3) The Property Is Generally Located In The Vicinity Of The Following Streets: _____

CR 474 and South Boggy Marsh Road

(4) Area of Property: _____ Square Feet:/ Acres: 64.68 (parent tract)
30 (MSP area)

(5) Does Property have or will have: Central Water & Sewer OR Well And Septic Tank
Port-o-Let and containerized water

(6) Present Zoning of Property: A + MSP #96/2/2-2

(7) Future Land Use Designation: Rural Conservation

(8) List Existing Structure(s) located on site and its use: None

(9) The Property is to be used for: extraction of sand and clay under currently approved Mining
Site Plan and Operating Permit

(10) *Applicant is hereby requesting an amendment to MSP #96/2/2-2 (Existing File Number)
OR _____ An application for a Mining Site Plan in accordance with Chapter 6.06.00 (LDR's)

(11) Is this application, for the above, being requested due to any Code Violation(s)? Specify the
basis or reason(s) for this request: No

(12) Has any previous application been filed in connection with this property:
YES or NO If YES, briefly describe the nature and outcome of the request
MSP #96/2/2-2 (1996) approved

*Amendment is for Hawthorne Properties, Ltd. ownership only

- (13) If the project is to be developed in phases, give a brief description of how it will be phased or attach a legible descriptive document. Project is currently approved for 2 phases
-
-
-

- (14) Please attach the exact legal description for the property being petitioned. A legible TAX RECEIPT or PROPERTY RECORD CARD and a copy of the WARRANTY DEED are required. A current survey of such property may also be required.

- (15) SURROUNDING PROPERTY OWNERS LIST (Provided by County Staff, for which applicant will be billed as part of application fees).

Complete names and addresses of Property Owner's of property lying within FIVE HUNDRED FEET (500') surrounding the property legally described on PAGE 2 of this application. Names will be obtained from the latest Official County Tax Rolls, as recorded, located in the Office of the Lake County Property Appraiser.

OWNER'S AFFIDAVIT

STATE OF FLORIDA)

COUNTY OF LAKE)

BEFORE ME, the undersigned authority personally appeared Charles E. Hawthorne who being by me first duly sworn on oath, deposes and says:

- 1. That he/she is the fee-simple owner of the property legally described on this application.
- 2. That he/she desires a Mining Site Plan to accomplish the above desired request, as stated on page one of this Application.
- 3. That he/she has appointed _____ to act as Agent to accomplish the above.

Charles E. Hawthorne
(Owner's Signature)

STATE OF FLORIDA
COUNTY OF LAKE

The foregoing instrument was acknowledged before me this 31st day of July, 2001, by Charles E. Hawthorne who is personally known to me or who has produced _____ as identification and who did or did not take an oath.

Jerry L. Baker
NOTARY PUBLIC, (Signature)

(SEAL)

Jerry L. Baker
Print or type Notary Name
Commission (serial) Number _____
My Commission Expires: _____



Jerry L. Baker
MY COMMISSION # CCB88833 EXPIRES
November 16, 2003
BONDED THRU TROY FAIR INSURANCE, INC.

NOTE: The Owner is also required to complete the Applicant's Affidavit of this Application if no agent is appointed to act in his stead.

APPLICANT'S AFFIDAVIT

STATE OF FLORIDA)

COUNTY OF LAKE)

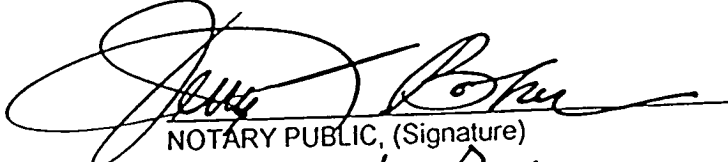
BEFORE ME, the undersigned authority personally appeared Charles E. Hawthorne who being first duly sworn on oath, deposes and says:

- (1) That he/she Affirms and Certifies that he/she understands and will comply with all Ordinances, Regulations, and Provisions of Lake County, and that all statements and diagrams submitted herewith and attached hereto, are true and accurate to the best of his/her knowledge and belief, and further, that this application and attachments shall become part of the Official Records of Lake County, Florida and are not RETURNABLE.
- (2) That he/she desires a Mining Site Plan to accomplish the above, as stated on Page One.
- (3) That the submittal requirements for this Application, which are attached hereto, have been completed and attached hereto as part of this Application.


 (Applicant's Signature)

STATE OF FLORIDA
COUNTY OF LAKE

The foregoing instrument was acknowledged before me this 31st day of July, 2001, by Charles E. Hawthorne Who is personally known to me or who has produced _____ as identification and who did or did not take an oath.


 NOTARY PUBLIC, (Signature)

(SEAL)

Jerry L. Baker
 Print or type Notary Name

Commission (serial) Number

My Commission Expires: _____



Jerry L. Baker
 MY COMMISSION # CCB88833 EXPIRES
 November 16, 2003
 BONDED THRU TROY FAIN INSURANCE, INC.

DESCRIPTION:

THAT PORTION OF SECTIONS 22 AND 27, TOWNSHIP 24 SOUTH, RANGE 26 EAST, DESCRIBED AS FOLLOWS: COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 22; THENCE NORTH 00°38'35" WEST ALONG THE WEST BOUNDARY OF SAID SECTION 22, A DISTANCE OF 66.46 FEET; THENCE NORTH 89°40'19" EAST, 154.64 FEET TO A FOUND CONCRETE MONUMENT; THENCE CONTINUE NORTH 89°40'19" EAST, 39.03 FEET TO THE EASTERLY RIGHT OF WAY OF BOGGY MARSH ROAD AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 89°40'19" EAST, 1870.74 FEET TO A FOUND CONCRETE MONUMENT; THENCE SOUTH 00°20'35" EAST, 1340.00 FEET TO A CONCRETE MONUMENT MARKED R.L.S. 2142; THENCE NORTH 89°50'55" EAST, 341.08 FEET TO A CONCRETE MONUMENT MARKED R.L.S. 2142 ON THE NORTH BOUNDARY SOUTH 00°36'30" EAST, 15.65 FEET TO A CONCRETE MONUMENT MARKED R.L.S. 2142 ON THE NORTH BOUNDARY OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF THE AFORESAID SECTION 27; THENCE NORTH 88°57'56" EAST ALONG THE SAID NORTH BOUNDARY, 213.04 FEET TO A POINT THAT IS 50.70 FEET FROM THE NORTHEAST CORNER OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4; THENCE SOUTH 03°05'34" EAST, 605.02 FEET TO THE NORTH RIGHT OF WAY LINE OF COUNTY ROAD NO. 474; THENCE SOUTH 88°55'19" WEST ALONG THE SAID RIGHT OF WAY LINE 33.83 FEET; THENCE NORTH 01°04'41" WEST, 100.00 FEET; THENCE SOUTH 88°55'19" WEST, 50.00 FEET; THENCE SOUTH 01°04'41" EAST, 100.00 FEET TO THE AFORESAID NORTH RIGHT OF WAY LINE OF COUNTY ROAD NO. 474; THENCE SOUTH 88°55'19" WEST ALONG THE SAID RIGHT OF WAY LINE, 1887.59 FEET TO THE WEST BOUNDARY OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE AFORESAID SECTION 27; THENCE NORTH 00°40'49" WEST ALONG THE SAID WEST BOUNDARY, 606.14 FEET TO THE NORTHWEST CORNER OF THE SAID NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4; THENCE NORTH 48°05'02" WEST ON A LINE TO THE SOUTHWEST CORNER OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SAID SECTION 27, A DISTANCE OF 412.15 FEET TO THE EASTERLY RIGHT OF WAY LINE OF AFORESAID BOGGY MARSH ROAD; THENCE NORTH 01°25'31" EAST ALONG SAID RIGHT OF WAY LINE, 352.42 FEET; THENCE CONTINUE ALONG SAID RIGHT OF WAY LINE, NORTH 29°50'29" WEST, 55.89 FEET; THENCE DEPARTING THE SAID RIGHT OF WAY LINE AND RUN NORTH 60°09'31" EAST, 50.00 FEET; THENCE NORTH 29°50'29" WEST, 100.00 FEET; THENCE SOUTH 60°09'31" WEST, 50.00 FEET TO THE AFORESAID EASTERLY RIGHT OF WAY LINE OF BOGGY MARSH ROAD; THENCE NORTH 29°50'29" WEST, 187.42 FEET; THENCE CONTINUE ALONG THE SAID RIGHT OF WAY LINE NORTH 04°23'01" EAST, 344.92 FEET TO THE POINT OF BEGINNING.

LESS THE FOLLOWING DESCRIBED PARCEL:

COMMENCE AT THE NORTHEAST CORNER OF SECTION 27, TOWNSHIP 24 SOUTH, RANGE 26 EAST, LAKE COUNTY, FLORIDA AND RUN SOUTH 00°43'52" EAST, ALONG THE EAST LINE OF SAID SECTION 27, A DISTANCE OF 1929.98 FEET, TO THE NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD NO. 474; THENCE SOUTH 88°55'19" WEST, ALONG SAID NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD NO. 474, A DISTANCE OF 3736.97 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 88°55'19" WEST ALONG SAID NORTHERLY RIGHT OF WAY, A DISTANCE OF 660.00 FEET; THENCE DEPARTING SAID NORTHERLY RIGHT OF WAY LINE RUN NORTH 00°24'50" WEST 1122.08 FEET; THENCE NORTH 88°55'19" EAST 660.00 FEET; THENCE SOUTH 00°24'50" EAST 1122.08 FEET TO THE POINT OF BEGINNING. CONTAINING 17.0 ACRES, MORE OR LESS (AS RECORDED IN OFFICIAL RECORD BOOK 1900, PAGE 696, PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.)

Wednesday, July 25, 2001

Property Records Search Results

Alternate Key: 1031699
HAWTHORNE PROPERTIES LTD

3808 DOUNE WAY
CLERMONT, FL34711

Parcel: 27-24-26-000200000800
Alt Key: 1031699 Mill Grp: 0005
Loc Notes: 15441 COUNTY ROAD 474

Legal Description:

BEG AT NW COR OF SEC RUN E 2045 FT, S 1300 FT, E 341 FT, S 17 FT, E 209 FT, S 1DEG 53MIN 20SEC E 662.02 FT, W 1956 FT, N 660 FT, N 45DEG W TO PT S OF POB, N TO POB--LESS & LYING W'LY OF E'LY LINE OF SOUTH BOGGY MARSH RD IN W 1/2 OF NW 1/4 OF NW 1/4 & LESS FROM NE COR OF SEC RUN S 1929.98 FT TO N'LY R/W LINE OF CO RD 474, W ALONG SAID N'LY R/W LINE 3736.97 FT FOR POB, CONT W 660 FT, N 1122.08 FT, N 88DEG 55MIN 19SEC E 660 FT, S 1122.08 FT TO POB--
ORB 1186 PG 890

Land Data

Line	Use	Front	Depth	Notes	# Unit	Type	Class Value	Just Value
1	9900	0	0		54.6	AC	0	273000
2	9600	0	0		6.7	AC	0	302
3	9900	0	0		3.5	AC	0	14000
Totals:							0	287302

Building Characteristics

Section Type	Section Number	Ext Wall Type	Number of Stories	Floor Area

Sales History

O.R. Book	O.R. Page	Sale Date	Instrument	Qualified/Unqualified	Vac Impr	Sale Price
0930	1796	07/01/1987	WD	M	V	340000
1186	0890	07/01/1992	CT	U	V	0

Total Just Value	Total Exempt Value	Total Taxable Value
287302	0	287302

* May Reflect Save-Our-Homes Limitations



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SECTION 2

SOILS REPORT



UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering ·
Environmental Sciences · Construction Materials Testing

December 14, 1995

Offices In:
· Orlando
· Gainesville
· Fort Myers
· Merritt Island
· St. Augustine
· Daytona Beach
· West Palm Beach

Bishop and Buttrey, Inc.
6239 Edgewater Drive, Suite D1
Orlando, Florida 32810

Attention: Mr. John Buttrey

Reference: Groundwater Evaluation
Pot of Gold Development (Hawthorn Borrow Pit No. 26)
Lake County, Florida
Project No. 17862-018-04
Report No. 95-1256E

Dear Mr. Buttrey:

We understand that you have applied for a Lake County mining permit for this project. One of the requirements for mining permits in this area is to demonstrate that the mining operation will have no impact on the surrounding groundwater conditions. Specifically for this project, there was the question as to whether or not stormwater that may perch above the near surface clay layer would no longer flow into the adjacent Green Swamp after the clay was excavated.

Our field exploration consisted of installing four temporary piezometers in order to measure the stabilized groundwater levels. Survey information provided by Altamonte Surveying indicated that the groundwater levels ranged from elevation 119 to 120.5 at our piezometer locations. By deriving groundwater contours, it is evident that the predominant groundwater flow at this site is from west to east towards the Boggy Marsh which is part of the Green Swamp. The water level within the Boggy Marsh was measured at elevation 117.8 on the same day. There appears to be a peak in the groundwater regime within the central portion of the site so that the northeastern portion of the site drains toward the swamp to the northeast of the project. Therefore, when the near surface clay layer is removed from the site, stormwater will infiltrate to the natural groundwater table and flow into the Boggy Marsh, thus having no impact on the Green Swamp. The derived groundwater contours are presented on the attached groundwater contour map.

We anticipate that during the wet season, the groundwater levels will rise on the order of 2- to 3- feet above the existing levels measured at our piezometer locations. This will still be well below the bottom of the excavation.

Additionally, we performed one soil boring advanced to a depth of 150-feet in order to evaluate the depth to the confining layer and limestone layer. After completing this boring, the borehole was backfilled with cement grout. Detailed descriptions of the soil encountered are presented in the attached boring log.

Bishop and Buttrey, Inc.

Attention: Mr. John Buttrey

Reference: Groundwater Evaluation
Pot of Gold Development (Hawthorn Borrow Pit No. 26)
Lake County, Florida
Project No. 17862-018-04
Report No. 95-1256E

December 14, 1995


Page No. 2

We appreciate the opportunity to have worked with you on this project and look forward to a continued association. If you should have any questions, or if you need further assistance, or discussion of your development options for this project, please do not hesitate to call.

Respectfully submitted,

UNIVERSAL ENGINEERING SCIENCES, INC.


Mark C. Israel, P.E.
Project Manager

 12/20/95
Bruce H. Woloshin, P.E.
P.E. No. 36734
Manager - Geotechnical Engineering





UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering ·
Environmental Sciences · Construction Materials Testing

Offices In:
· Orlando
· Gainesville
· Fort Myers
· Merritt Island
· St. Augustine
· Daytona Beach
· West Palm Beach

December 22, 1995

Bishop and Buttrey, Inc.
6239 Edgewater Drive, Suite D1
Orlando, Florida 32810

Attention: Mr. John Buttrey

Reference: Geotechnical Exploration
Pot of Gold Development (Hawthorn Borrow Pit No. 26)
Lake County, Florida
Project No. 17862-018-01

Dear Mr. Buttrey:

At your request Universal Engineering Sciences has performed a deep soil boring (through the confining layer and into the limestone) at a location selected by Ms. Rebecca Jetton. The boring log and boring location plan are included with this letter.

We appreciate the opportunity to have worked with you on this project and look forward to a continued association. If you should have any questions, or if you need further assistance, or discussion of your development options for this project, please do not hesitate to call.

Respectfully submitted,

UNIVERSAL ENGINEERING SCIENCES, INC.

Mark C. Israel, P.E.
Senior Project Engineer



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.:

PAGE: A-2.1

PROJECT: POT O' GOLD

BORING DESIGNATION: **B-1A**

SHEET: **1 of 3**

LAKE COUNTY, FLORIDA

SECTION: 27

TOWNSHIP: 24

RANGE: 26

CLIENT: BISHOP & BUTTREY, INC.

G.S. ELEVATION (ft): 149.0

DATE STARTED: 11/13/95

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft):

DATE FINISHED: 11/14/95

REMARKS:

DATE OF READING:

DRILLED BY: UES - ORLANDO

EST. S.H.W.T. (ft):

TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N (BLOWS/FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./DAY)	ORG. CONT. (%)
									LL	PI		
0						Very loose brown fine SAND [A-3]						
	X	2-1-2	3			-- light gray-brown						
	X	2-1-2	3			-- loose						
5	X	2-2-6	8			Medium dense orange & brown clayey SAND [A-2, A-6]						
	X	9-10-15	25									
	X	9-11-16	27									
10	X	15-15-20	35			-- dense						
15	X	4-14-21	35			Dense light gray fine SAND [A-3]						
	X					-- medium dense						
20	X	5-10-11	21									
25	X	9-10-14	24									
	X					-- dense						
30	X	10-20-25	45									
	X					-- medium dense						
35	X	8-9-11	20									
	X					-- dense						
40	X	10-14-17	31									
45	X	9-13-20	33									
50	X	7-22-29	51			Very dense light gray to white fine SAND with silt [A-3, A-2]						
55	X	9-17-22	39			-- dense						

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UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.:

PAGE: A-2.2

PROJECT: POT O' GOLD
LAKE COUNTY, FLORIDA

BORING DESIGNATION: **B-1A**
SECTION: 27 TOWNSHIP: 24

SHEET: **2 of 3**
RANGE: 26

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG. CONT. (%)
									LL	PI		
55												
60	X	10-14-21	35			Dense light gray to white silty fine SAND [A-2] -- medium dense						
65	X	7-14-16	30									
70	X	2-5-6	11									
75	X	6-7-9	16			Medium dense orange fine SAND [A-3] -- light yellowish gray-brown						
80	X	3-5-12	17									
85	X	3-4-3	7			-- loose						
90	X	1-1-3	4			-- very loose						
95	X	1-1-1	2			Very loose gray-green clayey SAND [A-2, A-6] -- light orange						
100	X	0-0-1	1									
105	X	2-3-3	6			-- loose						
110	X	4-10-17	27			Medium dense dark green silty SAND [A-2]						

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UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.:

PAGE: A-2.3

PROJECT: POT O' GOLD
LAKE COUNTY, FLORIDA

BORING DESIGNATION: **B-1A**
SECTION: 27 TOWNSHIP: 24

SHEET: **3 of 3**
RANGE: 26

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG. CONT. (%)	
									LL	PI			
110													
115	X	6-8-12	20			Medium dense light brown to tan SAND & highly decomposed LIMESILT							
120	X	39-23-34	57	-- very dense									
125	X	14-21-100	100/14"										
130	X	35-100	100/8"										
135	X	65-55-31	86										
140	X	3-10-13	23	-- medium dense									
145	X	9-12-12	24										
150	X	100	100/4"				Light brown to tan fragmented LIMESTONE BORING TERMINATED AT 150.0'						
155													
160													
165													

00719



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.: 54355

PAGE: A-2.1

PROJECT: POT O' GOLD

BORING DESIGNATION: B-1

SHEET: 1 of 1

LAKE COUNTY, FLORIDA

SECTION: 27

TOWNSHIP: 24

RANGE: 26

CLIENT: BISHOP & BUTTREY, INC.

G.S. ELEVATION (ft): 150.0

DATE STARTED: 9/9/95

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): N.E.

DATE FINISHED: 9/9/95

REMARKS: GROUND SURFACE ELEVATION IS APPROXIMATE. STABILIZED
GROUNDWATER TABLE NOT ENCOUNTERED.

DATE OF READING: 9/9/95

DRILLED BY: UES - ORLANDO

EST. W.S.W.T. (ft):

TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG CONT. (%)
									LL	PI		
0						Medium dense brown SAND [A-3]						
		7-7-8	15									
		3-3-2	5			Loose light brown SAND [A-3]						
5		2-3-2	5									
		2-3-2	5									
		2-3-3	6									
		3-4-3	7									
10						Stiff gray, purple & red CLAY with sand [A-7]						
		4-7-7	14									
15												
						- very stiff						
		7-11-18	29									
20												
		21-37-40	77			Very dense light gray SAND with clay [A-2]					3.1	
25												
		21-21-21	42			- dense						
30												
		11-21-20	41									
35						BORING TERMINATED AT 35.0'						
40												



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.:	17862-018-03
REPORT NO.:	54355
PAGE:	A-2.2

PROJECT: POT O' GOLD

BORING DESIGNATION: **B-2**

SHEET: **1 of 1**

SECTION: 27 TOWNSHIP: 24

RANGE: 26

LAKE COUNTY, FLORIDA

G.S. ELEVATION (ft): 149.0

DATE STARTED: 9/9/95

CLIENT: BISHOP & BUTTREY, INC.

WATER TABLE (ft): N.E.

DATE FINISHED: 9/9/95

LOCATION: SEE BORING LOCATION PLAN

DATE OF READING: 9/9/95

DRILLED BY: UES - ORLANDO

REMARKS: GROUND SURFACE ELEVATION IS APPROXIMATE. STABILIZED
GROUNDWATER TABLE NOT ENCOUNTERED.

EST. W.S.W.T. (ft):

TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG CONT. (%)
									LL	PI		
0						Loose light gray-brown SAND [A-3]						
		4-4-4	8			-- very loose						
		2-2-2	4									
5		1-2-2	4			-- medium dense						
		3-6-6	12			-- loose						
		3-4-5	9			Stiff light gray-green sandy CLAY [A-7]						
		8-7-8	15			Medium dense light brown fine SAND [A-3]						
10						Stiff purple & gray CLAY [A-7]						
		4-4-5	9									
15						Medium dense light gray to orange-brown SAND [A-3]						
		5-11-9	20									
20												
		8-12-13	25								1.3	
25												
		8-10-11	21									
30												
		12-14-15	29									
35						BORING TERMINATED AT 35.0'						
40												



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.: 54355

PAGE: A-2.3

PROJECT: POT O' GOLD

BORING DESIGNATION: **B-3**

SHEET: **1 of 1**

LAKE COUNTY, FLORIDA

SECTION: 27

TOWNSHIP: 24

RANGE: 26

CLIENT: BISHOP & BUTTREY, INC.

G.S. ELEVATION (ft): 145.0

DATE STARTED: 9/9/95

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): N.E.

DATE FINISHED: 9/9/95

REMARKS: GROUND SURFACE ELEVATION IS APPROXIMATE. STABILIZED
GROUNDWATER TABLE NOT ENCOUNTERED.

DATE OF READING: 9/9/95

DRILLED BY: UES - ORLANDO

EST. W.S.W.T. (ft):

TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG CONT. (%)
									LL	PI		
0						Very loose orange-brown SAND [A-3]						
		2-1-2	3									
		1-2-2	4									
5		8-11-14	25			Medium dense orange-brown silty & clayey SAND [A-2]						
		10-14-18	32			Very stiff to hard gray, purple & red sandy CLAY [A-7]						
		13-17-19	36									
		12-17-20	37									
10												
		17-20-25	45			Dense light gray SAND [A-3]						
15												
		15-21-26	47								10.0	
20												
		15-27-22	49									
25												
		14-30-30	60			-- very dense						
30						BORING TERMINATED AT 30.0'						
35												
40												

30/13



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.: 54355

PAGE: A-2.4

PROJECT: POT O' GOLD
LAKE COUNTY, FLORIDA

BORING DESIGNATION: **B-4** SHEET: **1 of 1**
SECTION: 27 TOWNSHIP: 24 RANGE: 26

CLIENT: BISHOP & BUTTREY, INC.
LOCATION: SEE BORING LOCATION PLAN

G.S. ELEVATION (ft): 131.0 DATE STARTED: 9/9/95
WATER TABLE (ft): 4.0 DATE FINISHED: 9/9/95

REMARKS: GROUND SURFACE ELEVATION IS APPROXIMATE

DATE OF READING: 9/9/95 DRILLED BY: UES - ORLANDO
EST. W.S.W.T. (ft): TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N (BLOWS/FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./DAY)	ORG. CONT. (%)
									LL	PI		
0						Loose brown SAND [A-3]						
		3-2-3	5									
		2-2-2	4									
5		4-4-4	8			Loose orange-brown clayey SAND [A-2/A-6]						
		5-9-11	20			Very stiff orange, gray and purple sandy CLAY [A-7]						
		10-12-18	30			Very stiff red, brown and purple CLAY [A-7]						
10		25-18-20	38			Dense orange-brown SAND [A-3]						
						BORING TERMINATED AT 10.0'						
15												
20												
25												
30												
35												
40												



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.: 54355

PAGE: A-2.5

PROJECT: POT O' GOLD

BORING DESIGNATION: **B-5**

SHEET: **1 of 1**

LAKE COUNTY, FLORIDA

SECTION: 27

TOWNSHIP: 24

RANGE: 26

CLIENT: BISHOP & BUTTREY, INC.

G.S. ELEVATION (ft): 148.0

DATE STARTED: 9/9/95

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): N.E.

DATE FINISHED: 9/9/95

REMARKS: GROUND SURFACE ELEVATION IS APPROXIMATE. STABILIZED.
GROUNDWATER TABLE NOT ENCOUNTERED.

DATE OF READING: 9/9/95

DRILLED BY: UES - ORLANDO

EST. W.S.W.T. (ft):

TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG CONT. (%)
									LL	PI		
0						Very loose orange-brown SAND [A-3]						
		2-2-1	3									
		2-2-2	4									
5		4-10-12	22			Stiff to very stiff red-brown sandy CLAY [A-7]						
		11-11-11	22									
		11-16-16	32									
10		11-15-15	30			Hard purple CLAY [A-7]						
15		21-30-50	80			Very dense light brown SAND [A-3]						
20		12-16-16	32			-- dense						
25		14-18-18	36								6.0	
30		17-25-32	57			-- dense						
						BORING TERMINATED AT 30.0'						
35												
40												



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.: 54355

PAGE: A-2.6

PROJECT: POT O' GOLD

BORING DESIGNATION: **B-6**

SHEET: **1 of 1**

LAKE COUNTY, FLORIDA

SECTION: 27

TOWNSHIP: 24

RANGE: 26

CLIENT: BISHOP & BUTTREY, INC.

G.S. ELEVATION (ft): 135.0

DATE STARTED: 9/9/95

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): N.E.

DATE FINISHED: 9/9/95

REMARKS: GROUND SURFACE ELEVATION IS APPROXIMATE. STABILIZED
GROUNDWATER TABLE NOT ENCOUNTERED.

DATE OF READING: 9/9/95

DRILLED BY: UES - ORLANDO

EST. W.S.W.T. (ft):

TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N (BLOWS/FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./DAY)	ORG CONT. (%)
									LL	PI		
0						Loose orange, brown and gray clayey SAND [A-2/A-6]						
	X	2-2-3	5		[Diagonal Hatching]	-- medium dense						
	X	2-2-4	6									
5	X	4-4-7	11		[Dotted Pattern]	Very stiff to hard orange, brown and gray sandy CLAY [A-7]						
	X	7-10-13	23									
	X	12-24-24	48									
10	X	20-25-30	55									
						Very dense light orange SAND [A-3]					11.0	
						-- medium dense						
15	X	8-8-8	16			BORING TERMINATED AT 15.0'						
20												
25												
30												
35												
40												



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.: 54355

PAGE: A-2.7

PROJECT: POT O' GOLD

BORING DESIGNATION: B-7

SHEET: 1 of 1

LAKE COUNTY, FLORIDA

SECTION: 27

TOWNSHIP: 24

RANGE: 26

CLIENT: BISHOP & BUTTREY, INC.

G.S. ELEVATION (ft): 130.0

DATE STARTED: 9/9/95

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): N.E.

DATE FINISHED: 9/9/95

REMARKS: GROUND SURFACE ELEVATION IS APPROXIMATE. STABILIZED
GROUNDWATER TABLE NOT ENCOUNTERED.

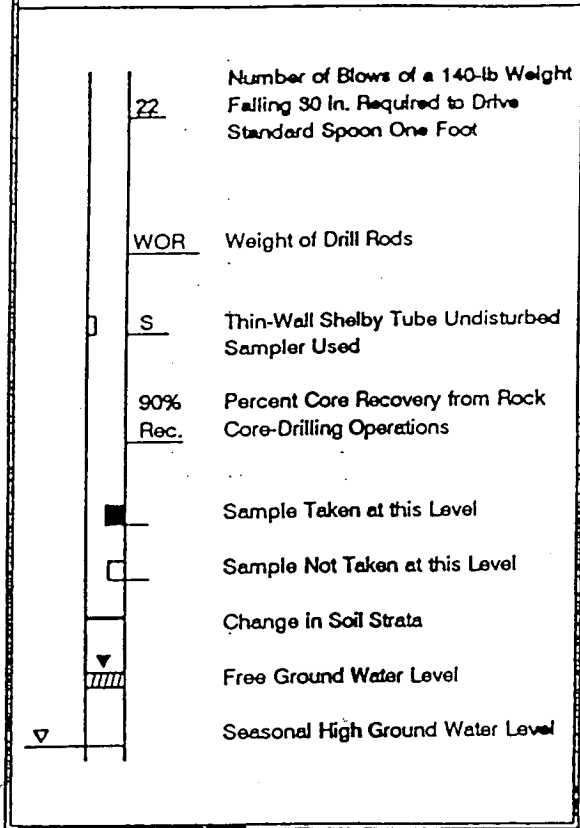
DATE OF READING: 9/9/95

DRILLED BY: UES - ORLANDO

EST. W.S.W.T. (ft):

TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMPLER	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG CONT. (%)
									LL	PI		
0						Very loose to loose light brown SAND [A-3]						
		2-1-2	3									
		2-2-4	6			Stiff to very stiff orange sandy CLAY [A-7]						
5		9-12-10	22			Medium dense orange, yellow and gray clayey SAND [A-2/A-6]						
		14-11-12	23									
		7-10-10	20									
10		14-12-10	22			Very stiff orange sandy CLAY [A-7]						
						BORING TERMINATED AT 10.0'						
15												
20												
25												
30												
35												
40												

SYMBOLS

**RELATIVE DENSITY
(sand-silt)**

Very Loose - Less Than 4 Blows/Ft.
 Loose - 4 - 10 Blows/Ft.
 Medium - 10 to 30 Blows/Ft.
 Dense - 30 to 50 Blows/Ft.
 Very Dense - More Than 50 Blows/Ft.

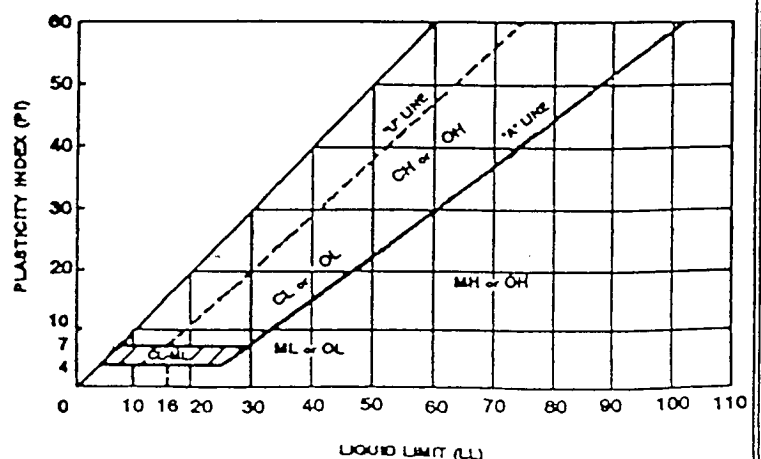
**CONSISTENCY
(clay)**

Very Soft - Less Than 2 Blows/Ft.
 Soft - 2 to 4 Blows/Ft.
 Medium - 4 to 8 Blows/Ft.
 Stiff - 8 to 15 Blows/Ft.
 Very Stiff - 15 to 30 Blows/Ft.
 Hard - More Than 30 Blows/Ft.

UNIFIED CLASSIFICATION SYSTEM

MAJOR DIVISIONS		GROUP SYMBOLS	TYPICAL NAMES
COARSE-GRAINED SOILS More than 50% retained on No. 200 sieve*	GRAVELS 60% or more of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS	GW Well-graded gravels and gravel-sand mixtures, little or no fines
		GRAVELS WITH FINES	GP Poorly graded gravels and gravel-sand mixtures, little or no fines
	SANDS More than 50% of coarse fraction passes No. 4 sieve	CLEAN SANDS	GM Silty gravels, gravel-sand-silt mixtures
		SANDS WITH FINES	GC Clayey gravels, gravel-sand-clay mixtures
			SW Well-graded sands and gravelly sands, little or no fines
			SP Poorly graded sands and gravelly sands, little or no fines
FINE-GRAINED SOILS 50% or more passes No. 200 sieve*	SILTS AND CLAYS Liquid limit 60% or less	SM Silty sands, sand-silt mixtures	
		SC Clayey sands, sand-clay mixtures	
		ML Inorganic silts, very fine sands, rock flour, silty or clayey fine sands	
	SILTS AND CLAYS Liquid limit greater than 60%	CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
		OL Organic silts and organic silty clays of low plasticity	
		MH Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts	
Highly Organic Soils	CH Inorganic clays of high plasticity, fat clays		
	OH Organic clays of medium to high plasticity		
	PT Peat, muck and other highly organic soils		

* Based on the material passing the 3-in. (75-mm) sieve.

PLASTICITY CHART


Project: HATHORN BORROW PIT

Job Number: 17862-018-03\719 Sheet 1 of 1

Manager: MI Client: BISHOP AND BUTTREY Project Description:

Location: FLA

FLA

Elevation Datum:

Boring Depth Elev.	Specimen Description				Water Content	Organic Content	ASTM Class	K ft/day	Sieve Analysis				
	LL	PL	PI	No 200					No 4	No 10	No 40	No 60	No 100

B-1 25.0							3.1						
B-2 25.0							1.3						
B-3 20.0							10.0						
B-5 25.0							6.0						
B-6 10.0							11.0						

Summary of
Material Properties

UNIVERSAL ENGINEERING SCIENCES, INC.
ORLANDO, FLORIDA

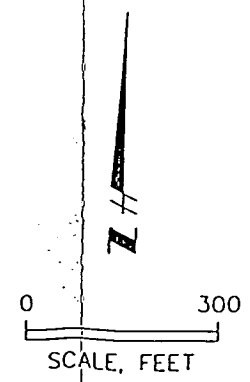
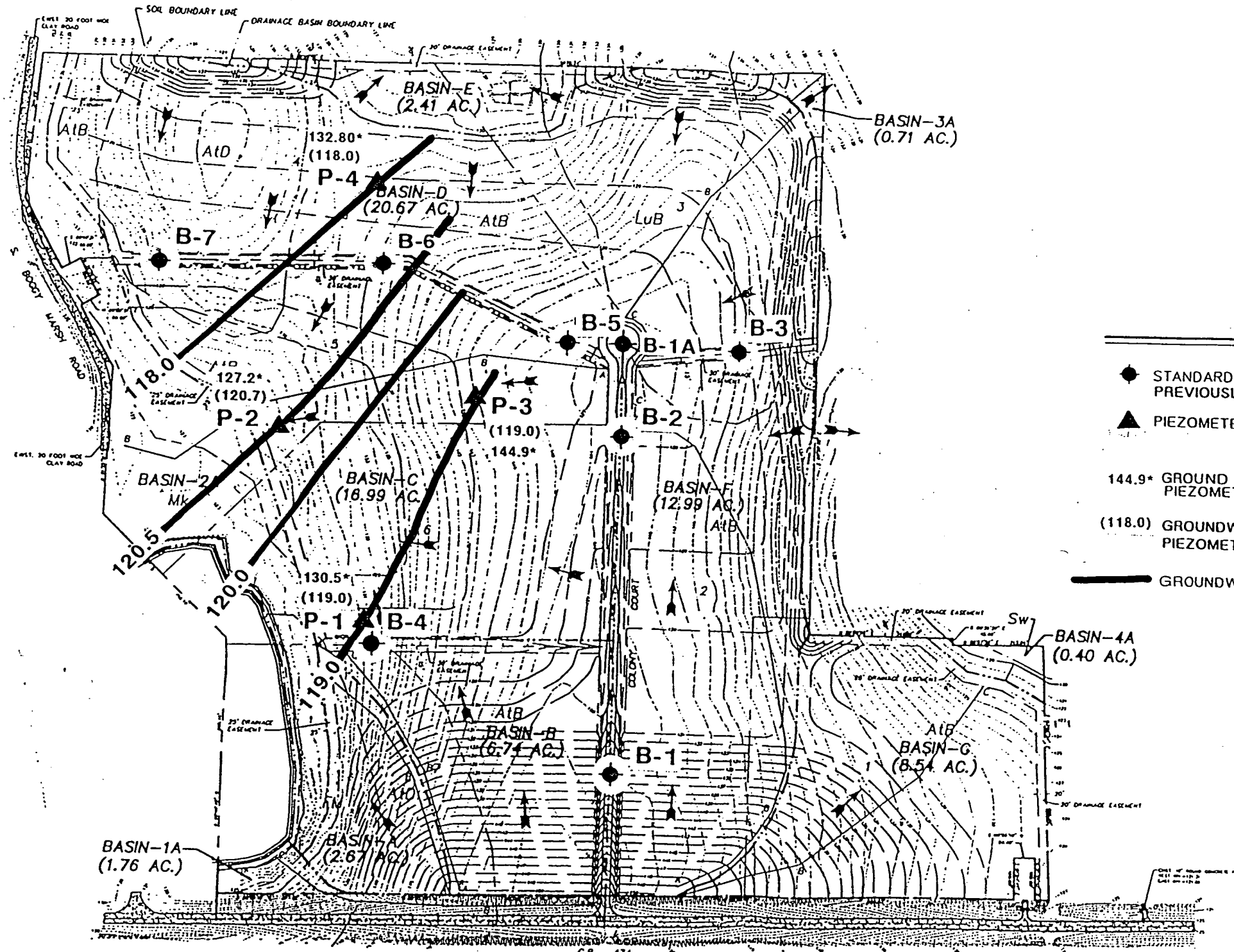


DESCRIPTION OF LABORATORY TESTING PROCEDURES

LABORATORY PERMEABILITY TEST

The laboratory permeability test is a Falling Head Test that is performed on soil samples recovered from this site. The data recovered from this test are used to calculate Darcy's Coefficient of Permeability (k) of the soil.

H0233-01




LEGEND

- ◆ STANDARD PENETRATION TEST BORING LOCATION PREVIOUSLY PERFORMED BY U.S.
- ▲ PIEZOMETER LOCATION
- 144.9* GROUND SURFACE ELEVATION AT PIEZOMETER LOCATION (FT.)
- (118.0) GROUNDWATER ELEVATION AT PIEZOMETER LOCATION (FT.)
- GROUNDWATER CONTOUR (FT.)

FOR: BISHOP & BUTTREY, INC.			
DRAWN BY: R.K.S.	DATE: 12/19/95		
CHECKED BY: M.C.J.	DATE: 1/2/96		
REPORT NO: 95-1256E	SCALE: AS SHOWN	PROJECT NO: 17R52-01R-04	

POT O' GOLD
LAKE COUNTY, FLORIDA
GROUNDWATER CONTOUR PLAN



UNIVERSAL
ENGINEERING SCIENCES

PAGE NO:

SECTION 3

RECREATIONAL LAKE
EXCAVATION PLAN

SECTION 4

RECLAMATION PLAN

Reclamation Plan

The excavation project originally proposed to achieve reclamation via the construction of a seven (7) lot single family subdivision. The plan provided for the construction of a single roadway and stormwater management system to serve the project. The finished grading of the lots and adjacent open space areas was to be completed as the excavation was finished in each Phase.

The Mining Site Plan is proposed to be modified to allow the construction of a recreational lake as part of the project reclamation. The pond construction is detailed on the enclosed revised plan. The remaining open space will be re-graded and revegetated as described in the following sections.

Reclamation and Recontouring

Reclamation shall commence within ninety (90) days after excavation within the project area or phase is complete. Stabilization and revegetation of all disturbed areas shall be commenced within 30 days, and will be completed within 120 days, following completion of regrading within the project area or within an area where excavation is complete.

Regrading and recontouring of the excavated areas will result in 10:1 slopes as an average condition at the limits of excavation as shown on the plans. The slopes adjacent to the recreational lake will be 9:1.

The site area will be regraded to leave the soil in the best possible condition for planting. The topsoil which has been stockpiled will be placed over the disturbed area to a depth sufficient to allow re-establishment of vegetation and to promote the propagation and survival of natural species. If needed, the disturbed soil will be ripped prior to the addition of the topsoil to break up any compaction. In areas where clay or clayey sands are encountered, a minimum of 1.5 feet of clean sand or topsoil will be provided.

Revegetation of recontoured and disturbed areas shall be as described below, so as to achieve permanent vegetative cover, which will minimize soil erosion and surface water runoff. Should washouts, rills, gullies, or the like develop after revegetation has effectively occurred, such areas will be repaired and slopes stabilized by seeding and mulching with bahia grass and hay per the procedures described below.

Disturbed areas will receive native topsoil applied with incorporated native grasses from adjacent work areas. This application of topsoil to disturbed areas will allow rapid revegetation, thus impeding soil and sediment transport. These areas will also be overseeded and possibly fertilized if additional soil nutrients are necessary. The *Soil Conservation Service: Technical Guide 342-1, May 1986, Critical Area Planting* (Planting

Plan) will be followed. The Planting Plan is adopted as the recommended methodology for erosion control and stabilization within the project work area. Revegetation will utilize native grasses and trees as deemed appropriate for a specific area being reclaimed.

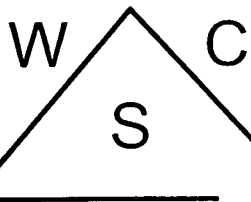
Revegetation efforts will be deemed adequate if at the end of one year an established ground cover exists over 80% of the recontoured and disturbed areas. Regular maintenance and upkeep of reclaimed areas shall be performed. All land areas, at the end of two (2) years after completion of initial reclamation, will have established ground cover over at least 95% of the reclaimed area, excluding roads, groves, and row crops.

Revegetation efforts will commence within 30 days after completion of regarding and shall be completed within 120 days.

Should any excavated and disturbed area remain inactive (no mining activity) for 24 months or more, stabilization and revegetation will be initiated immediately. All requirements as stated will apply to those areas identified as inactive.

The project plans provide for specific erosion and sediment control practices during the excavation process. The erosion control devices and other requirements will be place or implemented prior to initiating the site work. The final grading plan provides for the appropriate stormwater management facility to meet County and State requirements. The specific erosion and sediment control devices will remain in place throughout the life of the project.

Dust and fugitive particles generated by the disturbed area will be controlled by watering. Regrading, recontouring, and revegetation will be initiated within areas where excavation is completed as soon as is practical and no later than the schedule outlined above.



WICKS
CONSULTING
SERVICES, INC.

OFFICE: (352) 343-8667 • FAX: (352) 343-8665 • E-MAIL: WICKSCONSULTING@EARTHLINK.NET
225 West Main Street • Tavares, Florida 32778-3811

August 30, 2001

Mr. Allan Hewitt, Water Resource Manager
Lake County Water Resource Management
P. O. Box 7800
Tavares FL 32778-7800

REFERENCE: HAWTHORNE PROPERTIES, LTD.
MSP AMENDMENT


Dear Mr. Hewitt:

In response to our discussion regarding the MSP Amendment, I am enclosing two (2) revised copies of the Mining Site Plan. Since there are now two owners involved in the property covered by the original MSP, the Bishop & Buttrey ownership has been removed from the application. I will file a separate application for a minor modification for the Bishop & Buttrey portion of the MSP.

The mining on the Bishop & Buttrey property is nearing completion and this site will be graded and revegetated as required in the current Operation Plan. Upon completion of the work, the land will return to its agricultural designation with a residential density of 1 unit/10 acres.

Please contact me if you have any questions regarding this matter.

Sincerely,


Ted Wicks, P.E.

TW:kh

Enclosures

xc: Chuck Hawthorne w/encl.
John Buttrey w/encl.
Mary Williams (Lake Co. Zoning) w/encl.

lahewitt

MINING SITE PLAN AMENDMENT

FOR

HAWTHORNE PROPERTIES, LTD.

(F/K/A Bishop & Buttrey, Inc.)
Excavation Project

MSP #96/2/2-2

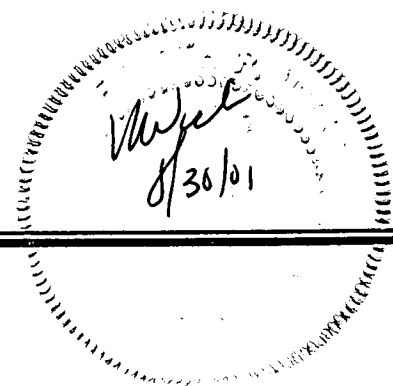
Prepared For:

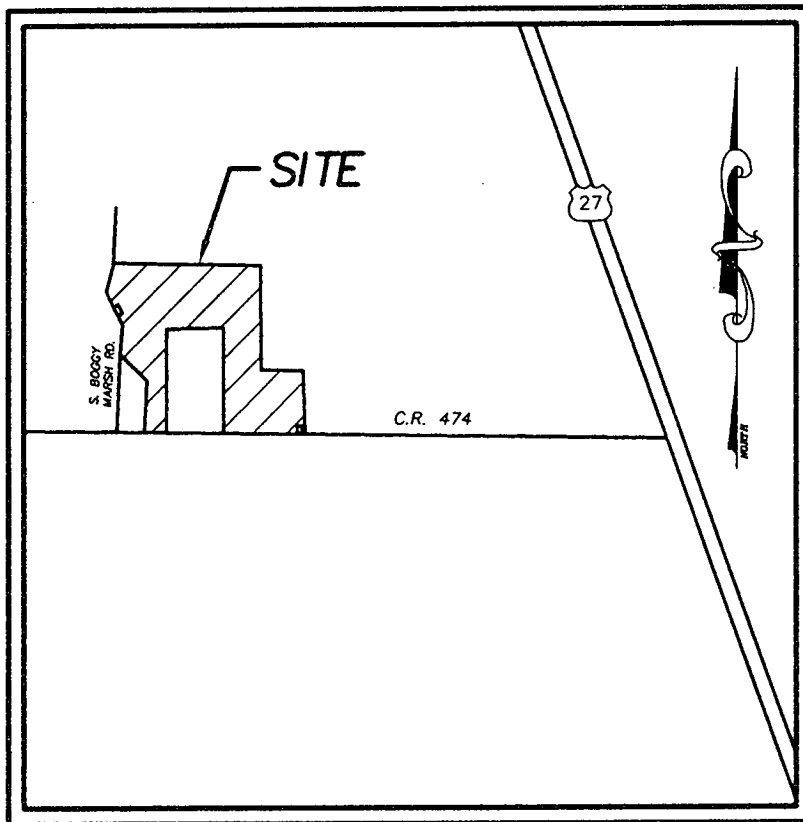
Hawthorne Properties, Ltd.
Post Office Box 289
Windermere FL 34786
(407) 858-0808

Prepared By:

Wicks Consulting Services, Inc.
225 West Main Street
Tavares FL 32778
(352) 343-8667

July 24, 2001
Revised August 10, 2001





LOCATION MAP

SCALE: 1"=2000'

Mining Site Plan Amendment
Hawthorne Properties, Ltd.

Introduction

Mining Site Plan approval for the Bishop & Buttrey Excavation Project was granted by Lake County under MSP #96/2/2-2. A subsequent Operating Permit was issued April 11, 1996 for the project. The project involves the removal of clean sands and clay soils from the site for use in local construction projects. The removal of the soil was planned and conducted to conform to the final grading plan for the Pot of Gold Subdivision. The subdivision was proposed to be constructed as the major component of the project Reclamation Plan.

The purpose of this amendment is to eliminate the construction of the subdivision and to create a recreational lake. Final project reclamation will include the recreational lake with the remainder of the area returned to open space.

The land area encompassed by the approved MSP is currently under the ownership of Hawthorne Properties, Ltd. and Bishop and Buttrey, Inc. The property owned by Bishop and Buttrey, Inc. is not included in the requested amendment. It will be handled separately from this request.

SECTION 1

APPLICATIONS

LAKE COUNTY MINING AND EXCAVATION SITE PLAN APPLICATION FORM
AMENDMENT

For Office Use Only: Application No. _____ District No. _____ Fee _____ Receipt No. _____

GENERAL INFORMATION

Hawthorne Properties, Ltd.
Mine or Project Name

North side of CR 474 -- Approximately 1 mile west of US Hwy 27
Location of Mine or Project

Sec 22 & 27 Twp 24 S Rge 26 E

Removal of excess overburden -- clean sand and clayey sands & creation of a recreational lake
Type of Mining Activity

Active Mine MSP #96/2/2-2 Operating Permit #95-12-97OP
Present Use and Zoning of Property

1. OWNER

Hawthorne Properties, Ltd. (407) 296-0016
Name Telephone No.

See enclosed information
Address

2. OPERATOR OR APPLICANT

Hawthorne Properties, Ltd.
Name Telephone No.

P. O. Box 289 Windermere FL 34786
Address

3. PROPOSED DATES OF COMMENCEMENT AND COMPLETION OF MINING

Currently active Mine

4. LEGAL DESCRIPTION OF MINE OR PROJECT

Parent Tract See attached Exhibit A

The requested amendment does not include the Bishop & Buttrey property ownership.

Information for application continues on following pages
(Include this sheet as first page of bound application)

The following additional information is provided in compliance with Chapter 6.06.03 of the Lake County Land Development Regulations and tracks both the language of the Code and the checklist included in Appendix A.

5. Ownership of all property within three hundred (300) feet of the property included in the Mining Site plan application has been researched. The ownership records and information was obtained from the Lake County Property Appraiser's Office. The ownership information is included as part of the application for Mining Site Plan Amendment, Appendix A, of this report.
6. During the excavation and site reclamation process, no buildings are proposed. The access driveway to the project is shown on the project plans. A land use map and aerial photograph is also enclosed. There are no existing buildings on the project site.
7. A traffic analysis was submitted as part of the original Mining Site Plan. No increase in project traffic is proposed.
8. The sanitary wastewater needs of the project will continue to be met via portable toilet facilities and containerized drinking water. These facilities are adequate since no permanent structure or residences are proposed. No hazardous materials will be stored or used on site. The earth moving equipment is fueled and serviced by a transient service vehicle, consequently, no fuel is stored on the project site.
9. A permit has been obtained from the St. Johns River Water Management District for the project. This permit will be modified to reflect the changes in the Reclamation Plan.
10. There are approximately 3 acres of wetlands on site. A Land Use and Cover Classification Map was previously submitted as part of the Mining Site Plan. There are no wetland alterations proposed as part of this project.
11. The upland areas were also identified on the FLUCCS map. A total of 78 acres of upland soils have been identified within the project. The uplands historically consisted of relic citrus lands. An aerial photograph is enclosed to show current site conditions.

Reclamation is now proposed to create a recreational lake and open space.
12. Project plans were included in the original Site Plan and Operating Permit. Revised plans are enclosed which shown the revised project.
13. The Mining Site Plan was approved for 47 acres including the buffer zones. (36 acres of extraction and 12 acres of setbacks). Overburden or unsuitable

materials will be stockpiled within the mining area and retained for use during the reclamation process. A waterbody will now be created as part of the project reclamation. Plan views and cross sections are enclosed.

14. The project has been approved for two (2) phases.
15. A cross-sectioned drawing was previously included in the Hydrogeologic Report. This information is not included in this report.
16. A Hydrogeologic Report was submitted as part of the original Mining Site Plan.
17. An Environmental Report was submitted as part of the original Mining Site Plan.
18. A revised Reclamation Plan is enclosed.
19. The project Reclamation Plan involves the creation of a recreational lake and open space.
20. No additional site specific information is submitted at this time.

Lake County, Florida
DEPARTMENT OF GROWTH MANAGEMENT

MINING SITE PLAN AMENDMENT

PUBLIC HEARING NUMBER: _____

STAFF PLANNER INTL: _____

DATE: _____

FILING FEE: _____

- (1) PROJECT NAME: Hawthorne Properties, Ltd. (f/k/a Bishop & Buttrey, Inc. Excavation Project)
 OWNER'S NAME: Charles E. Hawthorne
 COMPLETE MAILING ADDRESS: P. O. Box 289 Windermere FL 34786
 TELEPHONE NUMBER: (407) 858-0808 E-Mail Address _____
- (2) APPLICANT'S NAME: Charles E. Hawthorne
 COMPLETE MAILING ADDRESS: P. O. Box 289 Windermere FL 34786
 TELEPHONE NUMBER: (407) 858-0808 E-Mail Address _____
- (3) The Property Is Generally Located In The Vicinity Of The Following Streets: _____
CR 474 and South Boggy Marsh Road
- (4) Area of Property: _____ Square Feet:/ Acres: 64.68 (parent tract)
30 (MSP area)
- (5) Does Property have or will have: Central Water & Sewer OR Well And Septic Tank
Port-o-Let and containerized water
- (6) Present Zoning of Property: A + MSP #96/2/2-2
- (7) Future Land Use Designation: Rural Conservation
- (8) List Existing Structure(s) located on site and its use: None
- (9) The Property is to be used for: extraction of sand and clay under currently approved Mining
Site Plan and Operating Permit
- (10) *Applicant is hereby requesting an amendment to MSP #96/2/2-2 (Existing File Number)
 OR _____ An application for a Mining Site Plan in accordance with Chapter 6.06.00 (LDR's)
- (11) Is this application, for the above, being requested due to any Code Violation(s)? Specify the
 basis or reason(s) for this request: No
- (12) Has any previous application been filed in connection with this property:
 YES or NO If YES, briefly describe the nature and outcome of the request
MSP #96/2/2-2 (1996) approved

*Amendment is for Hawthorne Properties, Ltd. ownership only

- (13) If the project is to be developed in phases, give a brief description of how it will be phased or attach a legible descriptive document. Project is currently approved for 2 phases

- (14) Please attach the exact legal description for the property being petitioned. A legible TAX RECEIPT or PROPERTY RECORD CARD and a copy of the WARRANTY DEED are required. A current survey of such property may also be required.
- (15) SURROUNDING PROPERTY OWNERS LIST (Provided by County Staff, for which applicant will be billed as part of application fees).

Complete names and addresses of Property Owner's of property lying within FIVE HUNDRED FEET (500') surrounding the property legally described on PAGE 2 of this application. Names will be obtained from the latest Official County Tax Rolls, as recorded, located in the Office of the Lake County Property Appraiser.

OWNER'S AFFIDAVIT

STATE OF FLORIDA)

COUNTY OF LAKE)

BEFORE ME, the undersigned authority personally appeared Charles E. Hawthorne who being by me first duly sworn on oath, deposes and says:

- 1. That he/she is the fee-simple owner of the property legally described on this application.
- 2. That he/she desires a Mining Site Plan to accomplish the above desired request, as stated on page one of this Application.
- 3. That he/she has appointed _____ to act as Agent to accomplish the above.

Charles E. Hawthorne
(Owner's Signature)

STATE OF FLORIDA
COUNTY OF LAKE

The foregoing instrument was acknowledged before me this 31st day of July, 2001, by Charles E. Hawthorne who is personally known to me or who has produced _____ as identification and who did or did not take an oath.

Jerry L. Baker
NOTARY PUBLIC, (Signature)

(SEAL)

Jerry L. Baker
Print or type Notary Name
Commission (serial) Number _____
My Commission Expires: _____



Jerry L Baker
MY COMMISSION # CC888833 EXPIRES
November 16, 2003
BONDED THRU TROY FAIR INSURANCE, INC.

NOTE: The Owner is also required to complete the Applicant's Affidavit of this Application if no agent is appointed to act in his stead.

APPLICANT'S AFFIDAVIT

STATE OF FLORIDA)

COUNTY OF LAKE)

BEFORE ME, the undersigned authority personally appeared Charles E. Hawthorne who being first duly sworn on oath, deposes

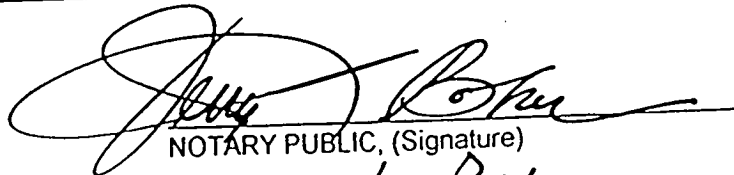
and says:

- (1) That he/she Affirms and Certifies that he/she understands and will comply with all Ordinances, Regulations, and Provisions of Lake County, and that all statements and diagrams submitted herewith and attached hereto, are true and accurate to the best of his/her knowledge and belief, and further, that this application and attachments shall become part of the Official Records of Lake County, Florida and are not RETURNABLE.
- (2) That he/she desires a Mining Site Plan to accomplish the above, as stated on Page One.
- (3) That the submittal requirements for this Application, which are attached hereto, have been completed and attached hereto as part of this Application.


 (Applicant's Signature)

STATE OF FLORIDA
COUNTY OF LAKE

The foregoing instrument was acknowledged before me this 31st day of July, 2001, by Charles E. Hawthorne Who is personally known to me or who has produced _____, as identification and who did or did not take an oath.


 NOTARY PUBLIC, (Signature)

Jerry L. Baker
 Print or type Notary Name

Commission (serial) Number

My Commission Expires: _____

(SEAL)



Jerry L. Baker
 MY COMMISSION # CC888833 EXPIRES
 November 16, 2003
 BONDED THRU TROY FARM INSURANCE, INC

DESCRIPTION:

THAT PORTION OF SECTIONS 22 AND 27, TOWNSHIP 24 SOUTH, RANGE 26 EAST, DESCRIBED AS FOLLOWS: COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 22; THENCE NORTH 00°38'35" WEST ALONG THE WEST BOUNDARY OF SAID SECTION 22, A DISTANCE OF 66.46 FEET; THENCE NORTH 89°40'19" EAST, 154.64 FEET TO A FOUND CONCRETE MONUMENT; THENCE CONTINUE NORTH 89°40'19" EAST, 39.03 FEET TO THE EASTERLY RIGHT OF WAY OF BOGGY MARSH ROAD AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 89°40'19" EAST, 1870.74 FEET TO A FOUND CONCRETE MONUMENT; THENCE SOUTH 00°20'35" EAST, 1340.00 FEET TO A CONCRETE MONUMENT MARKED R.L.S. 2142; THENCE NORTH 89°50'55" EAST, 341.08 FEET TO A CONCRETE MONUMENT MARKED R.L.S. 2142 ON THE NORTH BOUNDARY OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF THE AFORESAID SECTION 27; THENCE NORTH 88°57'56" EAST ALONG THE SAID NORTH BOUNDARY, 213.04 FEET TO A POINT THAT IS 50.70 FEET FROM THE NORTHEAST CORNER OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4; THENCE SOUTH 03°05'34" EAST, 605.02 FEET TO THE NORTH RIGHT OF WAY LINE OF COUNTY ROAD NO. 474; THENCE SOUTH 88°55'19" WEST ALONG THE SAID RIGHT OF WAY LINE 33.83 FEET; THENCE NORTH 01°04'41" WEST, 100.00 FEET; THENCE SOUTH 88°55'19" WEST, 50.00 FEET; THENCE SOUTH 01°04'41" EAST, 100.00 FEET TO THE AFORESAID NORTH RIGHT OF WAY LINE OF COUNTY ROAD NO. 474; THENCE SOUTH 88°55'19" WEST ALONG THE SAID RIGHT OF WAY LINE, 1887.59 FEET TO THE WEST BOUNDARY OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE AFORESAID SECTION 27; THENCE NORTH 00°40'49" WEST ALONG THE SAID WEST BOUNDARY, 606.14 FEET TO THE NORTHWEST CORNER OF THE SAID NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4; THENCE NORTH 48°05'02" WEST ON A LINE TO THE SOUTHWEST CORNER OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SAID SECTION 27, A DISTANCE OF 412.15 FEET TO THE EASTERLY RIGHT OF WAY LINE OF AFORESAID BOGGY MARSH ROAD; THENCE NORTH 01°25'31" EAST ALONG SAID RIGHT OF WAY LINE, 352.42 FEET; THENCE CONTINUE ALONG SAID RIGHT OF WAY LINE, NORTH 29°50'29" WEST, 55.89 FEET; THENCE DEPARTING THE SAID RIGHT OF WAY LINE AND RUN NORTH 60°09'31" EAST, 50.00 FEET; THENCE NORTH 29°50'29" WEST, 100.00 FEET; THENCE SOUTH 60°09'31" WEST, 50.00 FEET TO THE AFORESAID EASTERLY RIGHT OF WAY LINE OF BOGGY MARSH ROAD; THENCE NORTH 29°50'29" WEST, 187.42 FEET; THENCE CONTINUE ALONG THE SAID RIGHT OF WAY LINE NORTH 04°23'01" EAST, 344.92 FEET TO THE POINT OF BEGINNING.

LESS THE FOLLOWING DESCRIBED PARCEL:

COMMENCE AT THE NORTHEAST CORNER OF SECTION 27, TOWNSHIP 24 SOUTH, RANGE 26 EAST, LAKE COUNTY, FLORIDA AND RUN SOUTH 00°43'52" EAST, ALONG THE EAST LINE OF SAID SECTION 27, A DISTANCE OF 1929.98 FEET, TO THE NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD NO. 474; THENCE SOUTH 88°55'19" WEST, ALONG SAID NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD NO. 474, A DISTANCE OF 3736.97 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 88°55'19" WEST ALONG SAID NORTHERLY RIGHT OF WAY, A DISTANCE OF 660.00 FEET; THENCE DEPARTING SAID NORTHERLY RIGHT OF WAY LINE RUN NORTH 00°24'50" WEST 1122.08 FEET; THENCE NORTH 88°55'19" EAST 660.00 FEET; THENCE SOUTH 00°24'50" EAST 1122.08 FEET TO THE POINT OF BEGINNING. CONTAINING 17.0 ACRES, MORE OR LESS (AS RECORDED IN OFFICIAL RECORD BOOK 1900, PAGE 696, PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.)

Wednesday, July 25, 2001

Property Records Search Results

Alternate Key: 1031699
 HAWTHORNE PROPERTIES LTD

Parcel: 27-24-26-000200000800
 Alt Key: 1031699 Mill Grp: 0005
 Loc Notes: 15441 COUNTY ROAD 474

3808 DOUNE WAY
 CLERMONT, FL34711

Legal Description:

BEG AT NW COR OF SEC RUN E 2045 FT, S 1300 FT, E 341 FT, S 17 FT, E 209 FT, S 1DEG 53MIN 20SEC E 662.02 FT, W 1956 FT, N 660 FT, N 45DEG W TO PT S OF POB, N TO POB--LESS & LYING W'LY OF E'LY LINE OF SOUTH BOGGY MARSH RD IN W 1/2 OF NW 1/4 OF NW 1/4 & LESS FROM NE COR OF SEC RUN S 1929.98 FT TO N'LY R/W LINE OF CO RD 474, W ALONG SAID N'LY R/W LINE 3736.97 FT FOR POB, CONT W 660 FT, N 1122.08 FT, N 88DEG 55MIN 19SEC E 660 FT, S 1122.08 FT TO POB--
 ORB 1186 PG 890

Land Data

Line	Use	Front	Depth	Notes	# Unit	Type	Class Value	Just Value
1	9900	0	0		54.6	AC	0	273000
2	9600	0	0		6.7	AC	0	302
3	9900	0	0		3.5	AC	0	14000
Totals:							0	287302

Building Characteristics

Section Type Section Number Ext Wall Type Number of Stories Floor Area

Sales History

O.R. Book	O.R. Page	Sale Date	Instrument	Qualified/Unqualified	Vac Impr	Sale Price
0930	1796	07/01/1987	WD	M	V	340000
1186	0890	07/01/1992	CT	U	V	0

Total Just Value	Total Exempt Value	Total Taxable Value
287302	0	287302

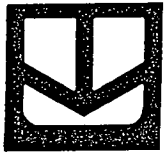
* May Reflect Save-Our-Homes Limitations



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SECTION 2

SOILS REPORT



UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering ·
Environmental Sciences · Construction Materials Testing

December 14, 1995

Offices In:
· Orlando
· Gainesville
· Fort Myers
· Merritt Island
· St. Augustine
· Daytona Beach
· West Palm Beach

Bishop and Buttrey, Inc.
6239 Edgewater Drive, Suite D1
Orlando, Florida 32810

Attention: Mr. John Buttrey

Reference: Groundwater Evaluation
Pot of Gold Development (Hawthorn Borrow Pit No. 26)
Lake County, Florida
Project No. 17862-018-04
Report No. 95-1256E

Dear Mr. Buttrey:

We understand that you have applied for a Lake County mining permit for this project. One of the requirements for mining permits in this area is to demonstrate that the mining operation will have no impact on the surrounding groundwater conditions. Specifically for this project, there was the question as to whether or not stormwater that may perch above the near surface clay layer would no longer flow into the adjacent Green Swamp after the clay was excavated.

Our field exploration consisted of installing four temporary piezometers in order to measure the stabilized groundwater levels. Survey information provided by Altamonte Surveying indicated that the groundwater levels ranged from elevation 119 to 120.5 at our piezometer locations. By deriving groundwater contours, it is evident that the predominant groundwater flow at this is from west to east towards the Boggy Marsh which is part of the Green Swamp. The water level within the Boggy Marsh was measured at elevation 117.8 on the same day. There appears to be a peak in the groundwater regime within the central portion of the site so that the northeastern portion of the site drains toward the swamp to the northeast of the project. Therefore, when the near surface clay layer is removed from the site, stormwater will infiltrate to the natural groundwater table and flow into the Boggy Marsh, thus having no impact on the Green Swamp. The derived groundwater contours are presented on the attached groundwater contour map.

We anticipate that during the wet season, the groundwater levels will rise on the order of 2- to 3- feet above the existing levels measured at our piezometer locations. This will still be well below the bottom of the excavation.

Additionally, we performed one soil boring advanced to a depth of 150-feet in order to evaluate the depth to the confining layer and limestone layer. After completing this boring, the borehole was backfilled with cement grout. Detailed descriptions of the soil encountered are presented in the attached boring log.

Bishop and Buttrey, Inc.

Attention: Mr. John Buttrey

Reference: Groundwater Evaluation
Pot of Gold Development (Hawthorn Borrow Pit No. 26)
Lake County, Florida
Project No. 17862-018-04
Report No. 95-1256E

December 14, 1995


Page No. 2

We appreciate the opportunity to have worked with you on this project and look forward to a continued association. If you should have any questions, or if you need further assistance, or discussion of your development options for this project, please do not hesitate to call.

Respectfully submitted,

UNIVERSAL ENGINEERING SCIENCES, INC.


Mark C. Israel, P.E.
Project Manager

 12/20/95
Bruce H. Woloshin, P.E.
P.E. No. 36734
Manager - Geotechnical Engineering





UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering ·
Environmental Sciences · Construction Materials Testing

Offices In:
• Orlando
• Gainesville
• Fort Myers
• Merritt Island
• St. Augustine
• Daytona Beach
• West Palm Beach

December 22, 1995

Bishop and Buttrey, Inc.
6239 Edgewater Drive, Suite D1
Orlando, Florida 32810

Attention: Mr. John Buttrey

Reference: Geotechnical Exploration
Pot of Gold Development (Hawthorn Borrow Pit No. 26)
Lake County, Florida
Project No. 17862-018-01

Dear Mr. Buttrey:

At your request Universal Engineering Sciences has performed a deep soil boring (through the confining layer and into the limestone) at a location selected by Ms. Rebecca Jetton. The boring log and boring location plan are included with this letter.

We appreciate the opportunity to have worked with you on this project and look forward to a continued association. If you should have any questions, or if you need further assistance, or discussion of your development options for this project, please do not hesitate to call.

Respectfully submitted,

UNIVERSAL ENGINEERING SCIENCES, INC.

Mark C. Israel, P.E.
Senior Project Engineer



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.:

PAGE: A-2.1

PROJECT: POT O' GOLD

BORING DESIGNATION: **B-1A**

SHEET: **1 of 3**

LAKE COUNTY, FLORIDA

SECTION: 27

TOWNSHIP: 24

RANGE: 26

CLIENT: BISHOP & BUTTREY, INC.

G.S. ELEVATION (ft): 149.0

DATE STARTED: 11/13/95

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft):

DATE FINISHED: 11/14/95

REMARKS:

DATE OF READING:

DRILLED BY: UES - ORLANDO

EST. S.H.W.T. (ft):

TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG. CONT. (%)
									LL	PI		
0						Very loose brown fine SAND [A-3]						
	X	2-1-2	3									
	X	2-1-2	3			-- light gray-brown -- loose						
5	X	2-2-6	8			Medium dense orange & brown clayey SAND [A-2, A-6]						
	X	9-10-15	25									
	X	9-11-16	27									
10	X	15-15-20	35			-- dense						
	X	4-14-21	35									
15	X					Dense light gray fine SAND [A-3]						
	X	5-10-11	21			-- medium dense						
20	X											
	X	9-10-14	24									
25	X											
	X	10-20-25	45			-- dense						
30	X											
	X	8-9-11	20			-- medium dense						
35	X											
	X	10-14-17	31			-- dense						
40	X											
	X	9-13-20	33									
45	X											
	X	7-22-29	51			Very dense light gray to white fine SAND with silt [A-3, A-2]						
50	X											
	X	9-17-22	39			-- dense						
55	X											



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.:

PAGE: A-2.2

PROJECT: POT O' GOLD
LAKE COUNTY, FLORIDA

BORING DESIGNATION: **B-1A**
SECTION: 27 TOWNSHIP: 24

SHEET: **2 of 3**
RANGE: 26

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG. CONT. (%)
									LL	PI		
55												
60	X	10-14-21	35			Dense light gray to white silty fine SAND [A-2]						
65	X	7-14-16	30			-- medium dense						
70	X	2-5-6	11									
75	X	6-7-9	16			Medium dense orange fine SAND [A-3]						
80	X	3-5-12	17			-- light yellowish gray-brown						
85	X	3-4-3	7			-- loose						
90	X	1-1-3	4			-- very loose						
95	X	1-1-1	2			Very loose gray-green clayey SAND [A-2, A-6]						
100	X	0-0-1	1			-- light orange						
105	X	2-3-3	6			-- loose						
110	X	4-10-17	27			Medium dense dark green silty SAND [A-2]						

00719



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.:

PAGE: A-2.3

PROJECT: POT O' GOLD
LAKE COUNTY, FLORIDA

BORING DESIGNATION: **B-1A**
SECTION: 27 TOWNSHIP: 24

SHEET: **3 of 3**
RANGE: 26

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG. CONT. (%)
									LL	PI		
110												
115	X	6-8-12	20			Medium dense light brown to tan SAND & highly decomposed LIMESILT						
120	X	39-23-34	57	-- very dense								
125	X	14-21-100	100/14"									
130	X	35-100	100/8"									
135	X	65-55-31	86									
140	X	3-10-13	23	-- medium dense								
145	X	9-12-12	24									
150	X	100	100/4"			Light brown to tan fragmented LIMESTONE BORING TERMINATED AT 150.0'						
155												
160												
165												



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.: 54355

PAGE: A-2.1

PROJECT: POT O' GOLD

BORING DESIGNATION: **B-1**
SECTION: 27

SHEET: **1 of 1**
RANGE: 26

LAKE COUNTY, FLORIDA

CLIENT: BISHOP & BUTTREY, INC.

G.S. ELEVATION (ft): 150.0

DATE STARTED: 9/9/95

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): N.E.

DATE FINISHED: 9/9/95

REMARKS: GROUND SURFACE ELEVATION IS APPROXIMATE. STABILIZED
GROUNDWATER TABLE NOT ENCOUNTERED.

DATE OF READING: 9/9/95

DRILLED BY: UES - ORLANDO

EST. W.S.W.T. (ft):

TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMPLER	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG CONT. (%)
									LL	PI		
0						Medium dense brown SAND [A-3]						
		7-7-8	15			Loose light brown SAND [A-3]						
		3-3-2	5									
5		2-3-2	5									
		2-3-2	5									
		2-3-3	6									
		3-4-3	7			Stiff gray, purple & red CLAY with sand [A-7]						
10												
		4-7-7	14			- very stiff						
15												
		7-11-18	29									
		21-37-40	77			Very dense light gray SAND with clay [A-2]					3.1	
25						- dense						
		21-21-21	42									
30												
		11-21-20	41			BORING TERMINATED AT 35.0'						
35												
40												



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.:	17862-018-03
REPORT NO.:	54355
PAGE:	A-2.2

PROJECT: POT O' GOLD

BORING DESIGNATION: **B-2**
SECTION: 27

SHEET: **1 of 1**
RANGE: 26

LAKE COUNTY, FLORIDA

CLIENT: BISHOP & BUTTREY, INC.

G.S. ELEVATION (ft): 149.0

DATE STARTED: 9/9/95

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): N.E.

DATE FINISHED: 9/9/95

REMARKS: GROUND SURFACE ELEVATION IS APPROXIMATE. STABILIZED
GROUNDWATER TABLE NOT ENCOUNTERED.

DATE OF READING: 9/9/95

DRILLED BY: UES - ORLANDO

EST. W.S.W.T. (ft):

TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMPLER	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG CONT. (%)
									LL	PI		
0						Loose light gray-brown SAND [A-3]						
		4-4-4	8			-- very loose						
		2-2-2	4									
5		1-2-2	4			-- medium dense						
		3-6-6	12			-- loose						
		3-4-5	9			Stiff light gray-green sandy CLAY [A-7]						
		8-7-8	15			Medium dense light brown fine SAND [A-3]						
						Stiff purple & gray CLAY [A-7]						
15		4-4-5	9									
						Medium dense light gray to orange-brown SAND [A-3]						
20		5-11-9	20									
		8-12-13	25								1.3	
30		8-10-11	21									
		12-14-15	29									
35						BORING TERMINATED AT 35.0'						
40												



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.: 54355

PAGE: A-2.3

PROJECT: POT O' GOLD

BORING DESIGNATION: **B-3**

SHEET: **1 of 1**

LAKE COUNTY, FLORIDA

SECTION: 27

TOWNSHIP: 24

RANGE: 26

CLIENT: BISHOP & BUTTREY, INC.

G.S. ELEVATION (ft): 145.0

DATE STARTED: 9/9/95

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): N.E.

DATE FINISHED: 9/9/95

REMARKS: GROUND SURFACE ELEVATION IS APPROXIMATE. STABILIZED
GROUNDWATER TABLE NOT ENCOUNTERED.

DATE OF READING: 9/9/95

DRILLED BY: UES - ORLANDO

EST. W.S.W.T. (ft):

TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG CONT. (%)
									LL	PI		
0						Very loose orange-brown SAND [A-3]						
		2-1-2	3									
		1-2-2	4									
5		8-11-14	25			Medium dense orange-brown silty & clayey SAND [A-2]						
		10-14-18	32			Very stiff to hard gray, purple & red sandy CLAY [A-7]						
		13-17-19	36									
		12-17-20	37									
10												
		17-20-25	45			Dense light gray SAND [A-3]						
15												
		15-21-26	47								10.0	
20												
		15-27-22	49									
25												
		14-30-30	60			-- very dense						
30						BORING TERMINATED AT 30.0'						
35												
40												

3/2/95



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.: 54355

PAGE: A-2.4

PROJECT: POT O' GOLD
LAKE COUNTY, FLORIDA

BORING DESIGNATION: **B-4** SHEET: **1 of 1**
SECTION: 27 TOWNSHIP: 24 RANGE: 26

CLIENT: BISHOP & BUTTREY, INC.
LOCATION: SEE BORING LOCATION PLAN
REMARKS: GROUND SURFACE ELEVATION IS APPROXIMATE

G.S. ELEVATION (ft): 131.0 DATE STARTED: 9/9/95
WATER TABLE (ft): 4.0 DATE FINISHED: 9/9/95
DATE OF READING: 9/9/95 DRILLED BY: UES - ORLANDO
EST. W.S.W.T. (ft): TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N (BLOWS/FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./DAY)	ORG CONT. (%)
									LL	PI		
0						Loose brown SAND [A-3]						
		3-2-3	5									
		2-2-2	4	▼								
5		4-4-4	8			Loose orange-brown clayey SAND [A-2/A-6]						
		5-9-11	20			Very stiff orange, gray and purple sandy CLAY [A-7]						
		10-12-18	30			Very stiff red, brown and purple CLAY [A-7]						
		25-18-20	38			Dense orange-brown SAND [A-3]						
10						BORING TERMINATED AT 10.0'						
15												
20												
25												
30												
35												
40												



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.: 54355

PAGE: A-2.5

PROJECT: POT O' GOLD

BORING DESIGNATION: **B-5**

SHEET: **1 of 1**

LAKE COUNTY, FLORIDA

SECTION: 27

TOWNSHIP: 24

RANGE: 26

CLIENT: BISHOP & BUTTREY, INC.

G.S. ELEVATION (ft): 148.0

DATE STARTED: 9/9/95

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): N.E.

DATE FINISHED: 9/9/95

REMARKS: GROUND SURFACE ELEVATION IS APPROXIMATE. STABILIZED
GROUNDWATER TABLE NOT ENCOUNTERED.

DATE OF READING: 9/9/95

DRILLED BY: UES - ORLANDO

EST. W.S.W.T. (ft):

TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG CONT. (%)
									LL	PI		
0						Very loose orange-brown SAND [A-3]						
		2-2-1	3									
		2-2-2	4									
5		4-10-12	22			Stiff to very stiff red-brown sandy CLAY [A-7]						
		11-11-11	22									
		11-16-16	32									
10		11-15-15	30			Hard purple CLAY [A-7]						
						Very dense light brown SAND [A-3]						
15		21-30-50	80									
						-- dense						
20		12-16-16	32									
25		14-18-18	36								6.0	
30		17-25-32	57									
						BORING TERMINATED AT 30.0'						
35												
40												



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.: 54355

PAGE: A-2.6

PROJECT: POT O' GOLD

BORING DESIGNATION: **B-6**

SHEET: 1 of 1

SECTION: 27 TOWNSHIP: 24

RANGE: 26

LAKE COUNTY, FLORIDA

CLIENT: BISHOP & BUTTREY, INC.

G.S. ELEVATION (ft): 135.0

DATE STARTED: 9/9/95

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): N.E.

DATE FINISHED: 9/9/95

REMARKS: GROUND SURFACE ELEVATION IS APPROXIMATE. STABILIZED
GROUNDWATER TABLE NOT ENCOUNTERED.

DATE OF READING: 9/9/95

DRILLED BY: UES - ORLANDO

EST. W.S.W.T. (ft):

TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMP LE	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SYM BOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG CONT. (%)
									LL	PI		
0						Loose orange, brown and gray clayey SAND [A-2/A-6]						
		2-2-3	5									
		2-2-4	6			-- medium dense						
5		4-4-7	11			Very stiff to hard orange, brown and gray sandy CLAY [A-7]						
		7-10-13	23									
		12-24-24	48									
10		20-25-30	55				Very dense light orange SAND [A-3]					11.0
						-- medium dense						
15		8-8-8	16			BORING TERMINATED AT 15.0'						
20												
25												
30												
35												
40												



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.: 54355

PAGE: A-2.7

PROJECT: POT O' GOLD

BORING DESIGNATION: **B-7**

SHEET: **1 of 1**

LAKE COUNTY, FLORIDA

SECTION: 27

TOWNSHIP: 24

RANGE: 26

CLIENT: BISHOP & BUTTREY, INC.

G.S. ELEVATION (ft): 130.0

DATE STARTED: 9/9/95

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): N.E.

DATE FINISHED: 9/9/95

REMARKS: GROUND SURFACE ELEVATION IS APPROXIMATE. STABILIZED
GROUNDWATER TABLE NOT ENCOUNTERED.

DATE OF READING: 9/9/95

DRILLED BY: UES - ORLANDO

EST. W.S.W.T. (ft):

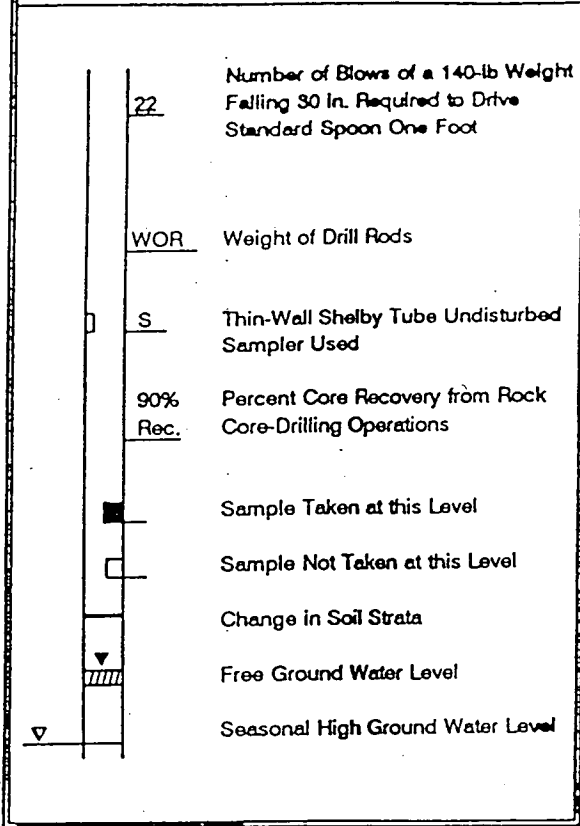
TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N (BLOWS/FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./DAY)	ORG CONT. (%)
									LL	PI		
0						Very loose to loose light brown SAND [A-3]						
	X	2-1-2	3									
	X	2-2-4	6			Stiff to very stiff orange sandy CLAY [A-7]						
5	X	9-12-10	22			Medium dense orange, yellow and gray clayey SAND [A-2/A-6]						
	X	14-11-12	23									
	X	7-10-10	20									
	X	14-12-10	22			Very stiff orange sandy CLAY [A-7]						
10						BORING TERMINATED AT 10.0'						
15												
20												
25												
30												
35												
40												

11/00



SYMBOLS



UNIFIED CLASSIFICATION SYSTEM

MAJOR DIVISIONS		GROUP SYMBOLS	TYPICAL NAMES
COARSE-GRAINED SOILS More than 80% retained on No. 200 sieve*	GRAVELS 80% or more of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS	GW Well-graded gravels and gravel-sand mixtures, little or no fines
		GRAVELS WITH FINES	GP Poorly graded gravels and gravel-sand mixtures, little or no fines
		CLEAN SANDS	GM Silty gravels, gravel-sand-silt mixtures
			GC Clayey gravels, gravel-sand-clay mixtures
	SANDS More than 80% of coarse fraction passes No. 4 sieve	CLEAN SANDS	SW Well-graded sands and gravelly sands, little or no fines
		SANDS WITH FINES	SP Poorly graded sands and gravelly sands, little or no fines
			SM Silty sands, sand-silt mixtures
			SC Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS 80% or more passes No. 200 sieve*	SILTS AND CLAYS Liquid limit 80% or less	ML Inorganic silts, very fine sands, rock flour, silty or clayey fine sands	
		CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
		OL Organic silts and organic silty clays of low plasticity	
	SILTS AND CLAYS Liquid limit greater than 80%	MH Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts	
		CH Inorganic clays or high plasticity, fat clays	
		OH Organic clays of medium to high plasticity	
		PT Highly Organic Soils Peat, muck and other highly organic soils	

* Based on the material passing the 3-in. (75-mm) sieve.

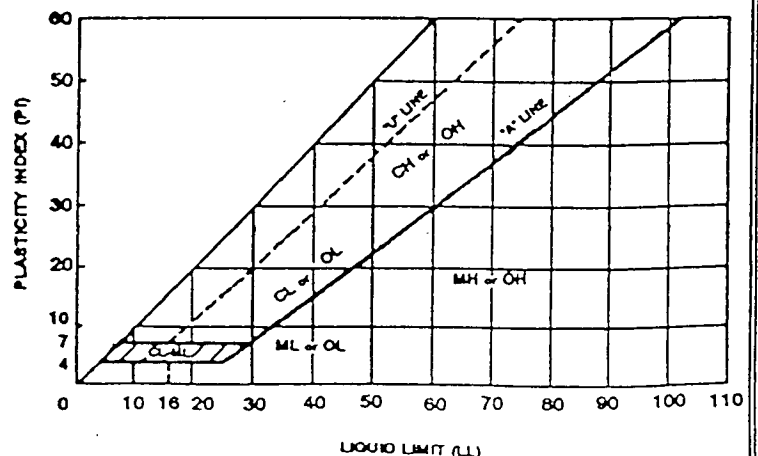
**RELATIVE DENSITY
(sand-silt)**

- Very Loose - Less Than 4 Blows/Ft.
- Loose - 4 - 10 Blows/Ft.
- Medium - 10 to 30 Blows/Ft.
- Dense - 30 to 50 Blows/Ft.
- Very Dense - More Than 50 Blows/Ft.

**CONSISTENCY
(clay)**

- Very Soft - Less Than 2 Blows/Ft.
- Soft - 2 to 4 Blows/Ft.
- Medium - 4 to 8 Blows/Ft.
- Stiff - 8 to 15 Blows/Ft.
- Very Stiff - 15 to 30 Blows/Ft.
- Hard - More Than 30 Blows/Ft.

PLASTICITY CHART



Project: HATHORN BORROW PIT

Job Number: 17862-018-03\719 Sheet 1 of 1

Manager: MI Client: BISHOP AND BUTTREY Project Description: _____
 Location: FLA _____
FLA _____
 Elevation Datum: _____

Boring Depth Elev.	Specimen Description				Water Content	Organic Content	ASTM Class	K ft/day	Sieve Analysis				
	LL	PL	PI	No 200					No 4	No 10	No 40	No 60	No 100
B-1 25.0							3.1						
B-2 25.0							1.3						
B-3 20.0							10.0						
B-5 25.0							6.0						
B-6 10.0							11.0						

Summary of
Material Properties

UNIVERSAL ENGINEERING SCIENCES, INC.
ORLANDO, FLORIDA



DESCRIPTION OF LABORATORY TESTING PROCEDURES

LABORATORY PERMEABILITY TEST

The laboratory permeability test is a Falling Head Test that is performed on soil samples recovered from this site. The data recovered from this test are used to calculate Darcy's Coefficient of Permeability (k) of the soil.

R. 26 E

sheet 72)



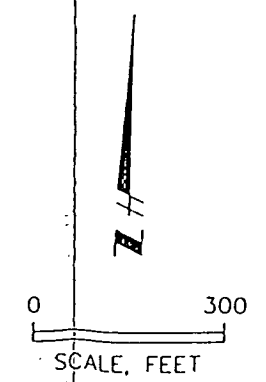
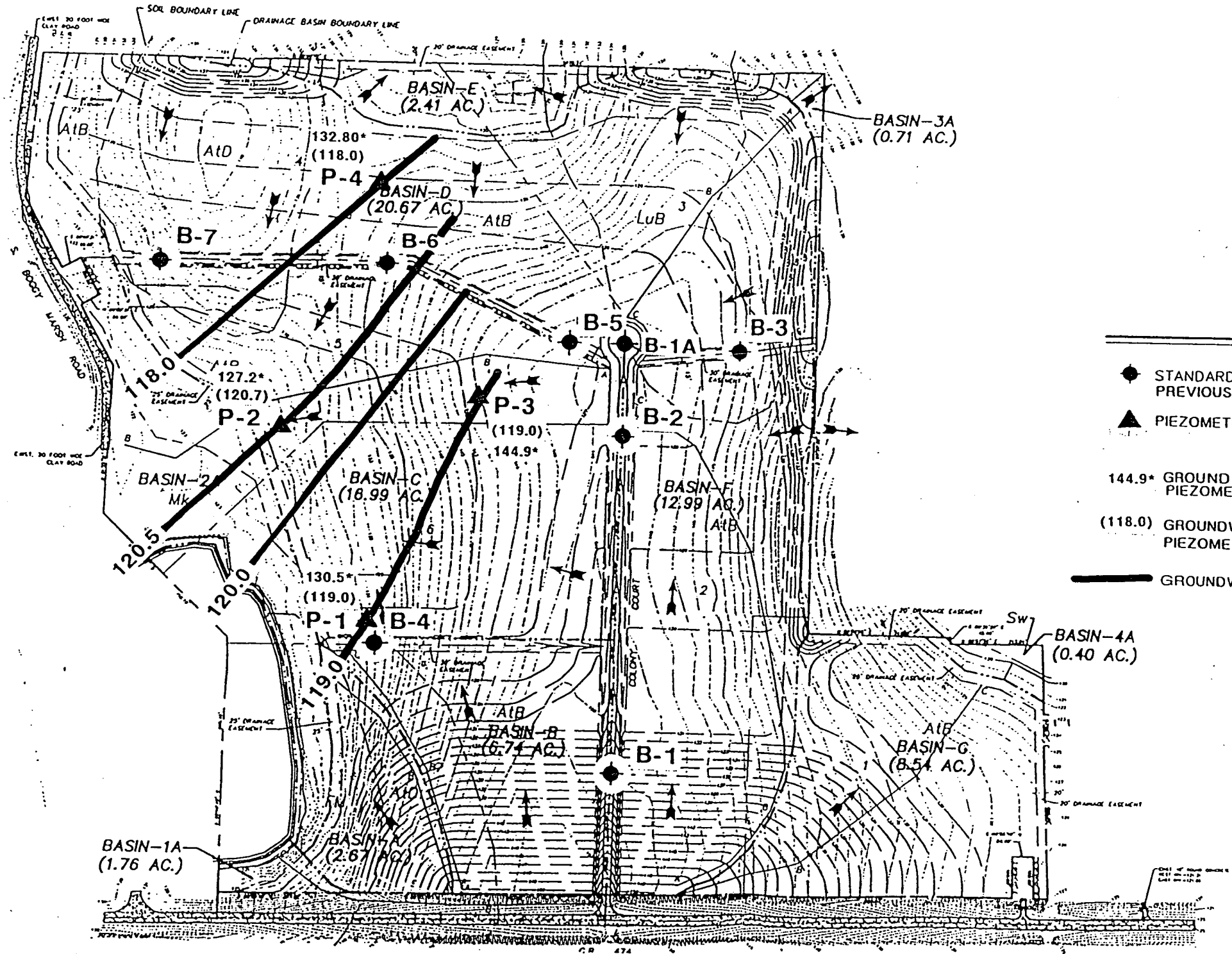
SCALE 1" = 1667'

SCS SOILS MAP

POT OF GOLD S/D

SEC. 27 TWP. 24S. RNG. 26E

H0233-01

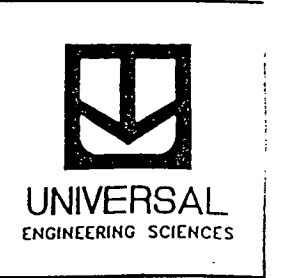


LEGEND

- ◆ STANDARD PENETRATION TEST BORING LOCATION PREVIOUSLY PERFORMED BY U.S.
- ▲ PIEZOMETER LOCATION
- 144.9* GROUND SURFACE ELEVATION AT PIEZOMETER LOCATION (FT.)
- (118.0) GROUNDWATER ELEVATION AT PIEZOMETER LOCATION (FT.)
- GROUNDWATER CONTOUR (FT.)

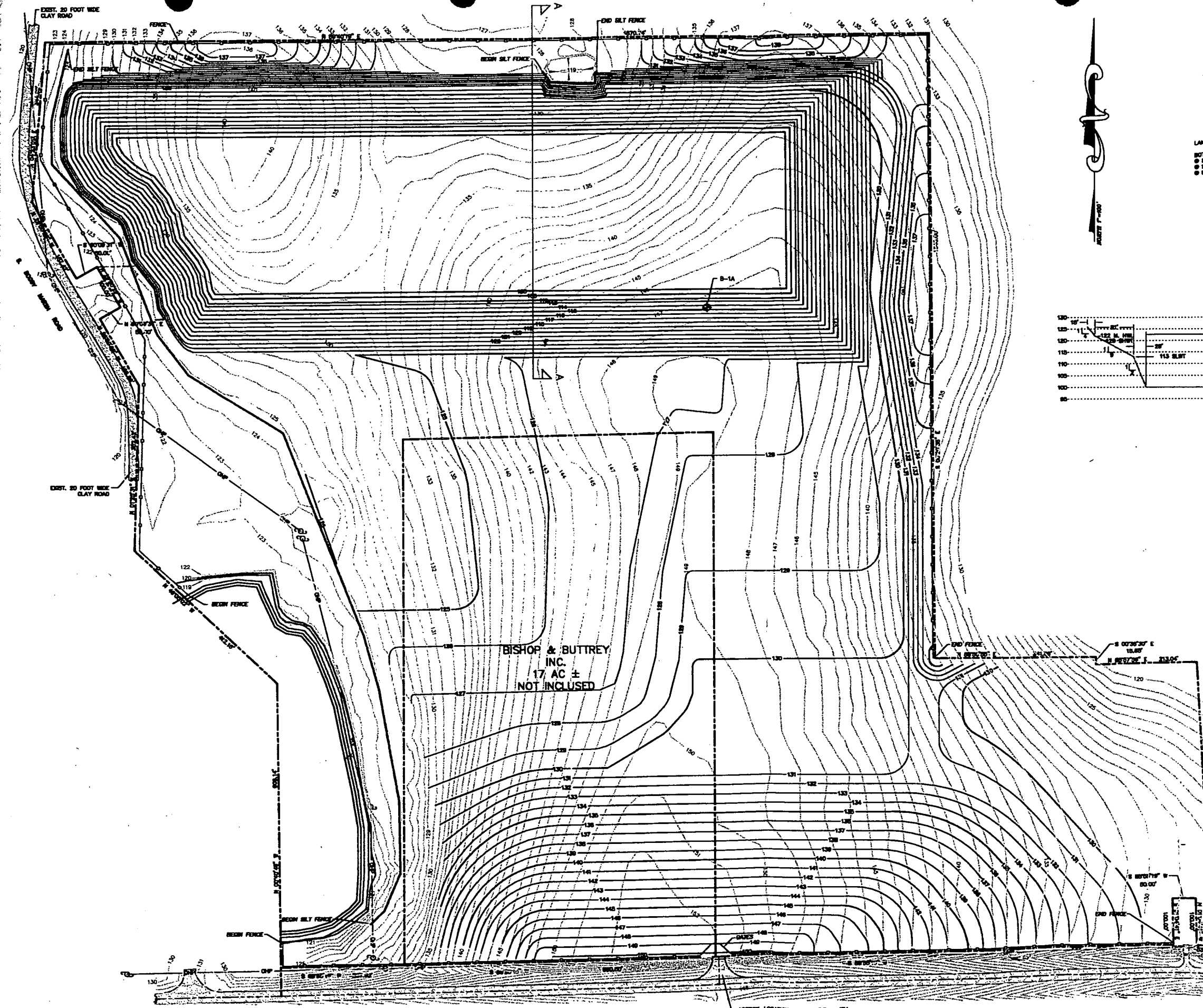
FOR: BISHOP & BUTTREY, INC.			
DRAWN BY: R.K.S.	DATE: 12/19/95		
CHECKED BY: M.C.	DATE: 12/29/95		
REPORT NO: 95-1256E	SCALE: AS SHOWN		
PROJECT NO: 17862-NTR-04			

POT O' GOLD
LAKE COUNTY, FLORIDA
GROUNDWATER CONTOUR PLAN



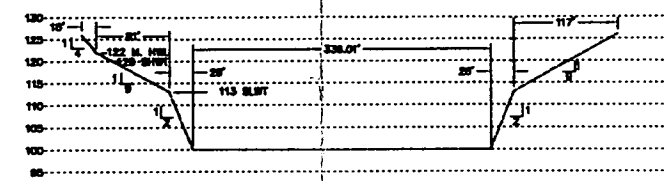
SECTION 3

RECREATIONAL LAKE
EXCAVATION PLAN



LAKE AREA SUMMARY

BOTTOM FOOT WIDE	10 ACRES
SEASONAL LOW WATER (11.5' MSL)	12 ACRES
SEASONAL HIGH WATER (12.0' MSL)	18 ACRES
MAXIMUM HIGH WATER (12.5' MSL)	19 ACRES



- LEGEND:**
- 134 — EXISTING 1' CONTOURS
 - 130 — EXISTING 5' CONTOURS
 - - - 134 - - - PROPOSED CONTOURS
 - — — SILT FENCE
 - - - EASEMENT LINE
 - - - PHASE
 - ⊙ B-1A SOIL BORING LOCATION

EROSION & SEDIMENT CONTROL

After the initiation of construction of planned improvements, all sites will be inspected and regraded to provide erosion and runoff control during construction.

All disturbed areas will be brought to final grade and seeded and mulched as soon as possible.

Areas which may erode due to slope or concentrated runoff during construction will be treated. Temporary slope drain protection will be provided per DOT Road Design Standard Table 10.102.

Off site discharge of untreated stormwater will be prevented using temporary basins and ditches where needed.

Sediment traps and silt fences will be provided along temporary roads and structures of other earthwork. Design consistent with DOT Road Design Standard Table 10.102 will be used.

Turbidity barriers, if required, will be used and will conform to DOT Table 10.103.

Upon completion of site improvements, the WPA's erosion and other planimeter management devices will be final graded and seeded as specified in the approved construction plans.

ROUTINE MAINTENANCE — STORMWATER

After completion of construction, WPA's will be moved and maintained as part of the normal lawn and open space maintenance.

Trash and debris that accumulate within the WPA's, erosion pipes, and traps will be promptly collected and disposed of with other normal solid waste.

Any erosion, loss of grass, etc., will be repaired or replaced promptly and as needed.

Pipes, traps, flumes, and other control devices will be inspected annually and repairs made as needed.

HAWTHORNE PROPERTIES, LTD.
MINING SITE PLAN AMENDMENT
(F/K/A BISHOP & BUTTREY, INC.)

W C WICKS CONSULTING SERVICES, INC.
 18 1/2' 1987
 18 1/2' 1987

CHARLES HAWTHORNE
 P.O. BOX 289
 WINDERMERE, FLORIDA 34786
 (407) 857-0808

Drawn by	REVISION:	DATE:
Checked by	REVIEWED BY:	6-30-01
Date: 7-27-01		
Scale: 1"=100'		
File No: 144-01		

Sheet: 1 of 1

KENNETH R. WICKS, P.E. FL. REG. NO. 33274
 DATE:

MINING SITE PLAN AMENDMENT
FOR
HAWTHORNE PROPERTIES, LTD.

(F/K/A Bishop & Buttrey, Inc.)
Excavation Project

Prepared For:

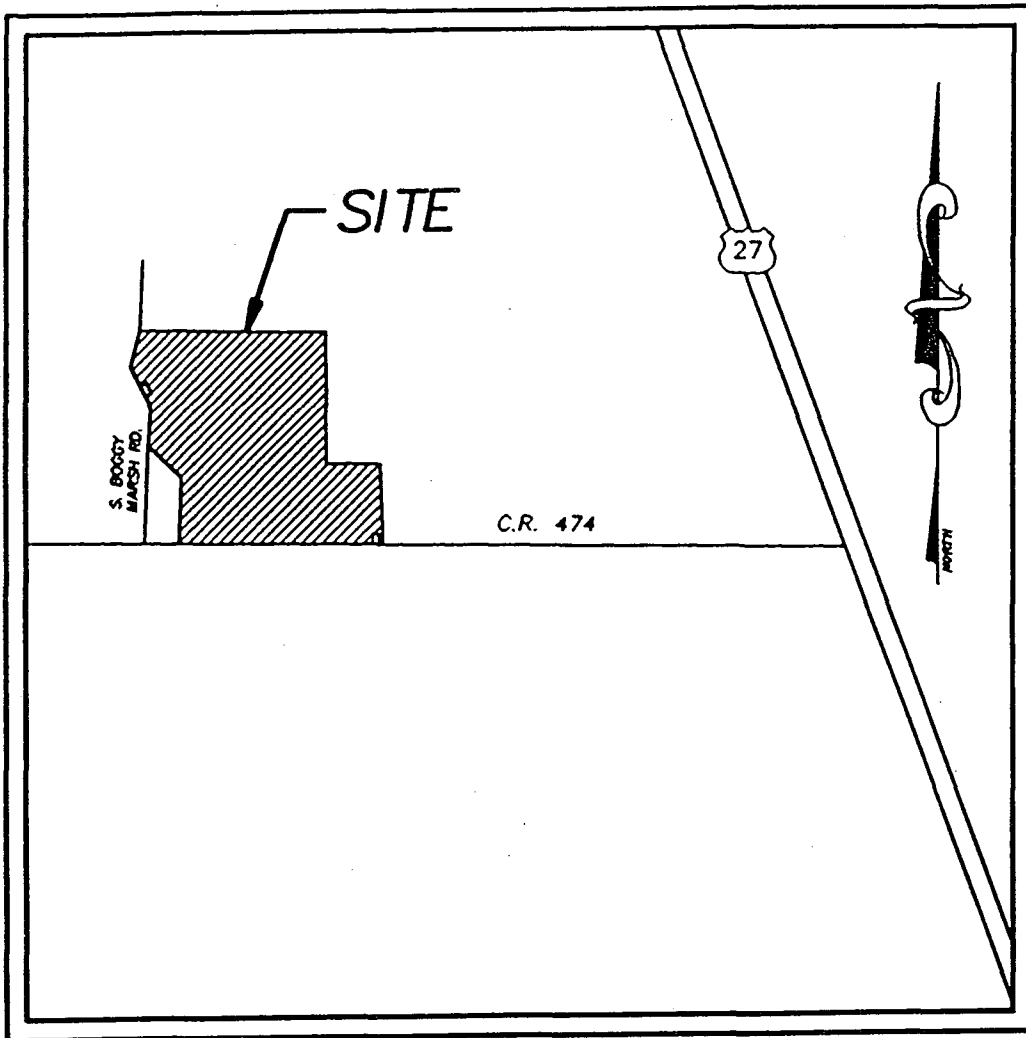
Hawthorne Properties, Ltd.
Post Office Box 289
Windermere FL 34786
(407) 858-0808

Prepared By:

Wicks Consulting Services, Inc.
225 West Main Street
Tavares FL 32778
(352) 343-8667

July 24, 2001





LOCATION MAP
SCALE: 1"=2000'

Mining Site Plan Amendment
Hawthorne Properties, Ltd.

Introduction

Mining Site Plan approval for the Bishop & Buttrey Excavation Project was granted by Lake County under MSP #96/2/2-2. A subsequent Operating Permit was issued April 11, 1996 for the project. The project involves the removal of clean sands and clay soils from the site for use in local construction projects. The removal of the soil was planned and conducted to conform to the final grading plan for the Pot of Gold Subdivision. The subdivision was proposed to be constructed as the major component of the project Reclamation Plan.

The purpose of this amendment is to eliminate the construction of the subdivision and to create a recreational lake. Final project reclamation will include the recreational lake with the remainder of the area returned to open space.

SECTION 1

APPLICATIONS

The following additional information is provided in compliance with Chapter 6.06.03 of the Lake County Land Development Regulations and tracks both the language of the Code and the checklist included in Appendix A.

5. Ownership of all property within three hundred (300) feet of the property included in the Mining Site plan application has been researched. The ownership records and information was obtained from the Lake County Property Appraiser's Office. The ownership information is included as part of the application for Mining Site Plan Amendment, Appendix A, of this report.
6. During the excavation and site reclamation process, no buildings are proposed. The access driveway to the project is shown on the project plans. A land use map and aerial photograph is also enclosed. There are no existing buildings on the project site.
7. A traffic analysis was submitted as part of the original Mining Site Plan. No increase in project traffic is proposed.
8. The sanitary wastewater needs of the project will continue to be met via portable toilet facilities and containerized drinking water. These facilities are adequate since no permanent structure or residences are proposed. No hazardous materials will be stored or used on site. The earth moving equipment is fueled and serviced by a transient service vehicle, consequently, no fuel is stored on the project site.
9. A permit has been obtained from the St. Johns River Water Management District for the project. This permit will be modified to reflect the changes in the Reclamation Plan.
10. There are approximately 3 acres of wetlands on site. A Land Use and Cover Classification Map was previously submitted as part of the Mining Site Plan. There are no wetland alterations proposed as part of this project.
11. The upland areas were also identified on the FLUCCS map. A total of 78 acres of upland soils have been identified within the project. The uplands historically consisted of relic citrus lands. An aerial photograph is enclosed to show current site conditions.

Reclamation is now proposed to create a recreational lake and open space.

12. Project plans were included in the original Site Plan and Operating Permit. Revised plans are enclosed which shown the revised project.
13. The Mining Site Plan was approved for 47 acres including the buffer zones. (36 acres of extraction and 12 acres of setbacks). Overburden or unsuitable

materials will be stockpiled within the mining area and retained for use during the reclamation process. A waterbody will now be created as part of the project reclamation. Plan views and cross sections are enclosed.

14. The project has been approved for two (2) phases.
15. A cross-sectioned drawing was previously included in the Hydrogeologic Report. This information is not included in this report.
16. A Hydrogeologic Report was submitted as part of the original Mining Site Plan.
17. An Environmental Report was submitted as part of the original Mining Site Plan.
18. A revised Reclamation Plan is enclosed.
19. The project Reclamation Plan involves the creation of a recreational lake and open space.
20. No additional site specific information is submitted at this time.

Lake County, Florida
DEPARTMENT OF GROWTH MANAGEMENT

MINING SITE PLAN AMENDMENT

PUBLIC HEARING NUMBER: _____

STAFF PLANNER INTL: _____

DATE: _____

FILING FEE: _____

(1) PROJECT NAME: Hawthorne Properties, Ltd. (f/k/a Bishop & Buttrey, Inc. Excavation Project)

OWNER'S NAME: Charles E. Hawthorne

COMPLETE MAILING ADDRESS: P. O. Box 289 Windermere FL 34786

TELEPHONE NUMBER: (407) 858-0808 E-Mail Address _____

(2) APPLICANT'S NAME: Charles E. Hawthorne

COMPLETE MAILING ADDRESS: P. O. Box 289 Windermere FL 34786

TELEPHONE NUMBER: (407) 858-0808 E-Mail Address _____

(3) The Property Is Generally Located In The Vicinity Of The Following Streets: _____

CR 474 and South Boggy Marsh Road

(4) Area of Property: _____ Square Feet:/ Acres: 81.68 (parent tract)

47 (MSP area)

(5) Does Property have or will have: Central Water & Sewer OR Well And Septic Tank

Port-o-Let and containerized water

(6) Present Zoning of Property: A + MSP #96/2/2-2

(7) Future Land Use Designation: Rural Conservation

(8) List Existing Structure(s) located on site and its use: None

(9) The Property is to be used for: extraction of sand and clay under currently approved Mining

Site Plan and Operating Permit

(10) Applicant is hereby requesting an amendment to MSP #96/2/2-2 (Existing File Number) OR

An application for a Mining Site Plan in accordance with Chapter 6.06.00 (LDR's)

(11) Is this application, for the above, being requested due to any Code Violation(s)? Specify the

basis or reason(s) for this request: No

(12) Has any previous application been filed in connection with this property:

YES or NO If YES, briefly describe the nature and outcome of the request

MSP #96/2/2-2 (1996) approved

- (13) If the project is to be developed in phases, give a brief description of how it will be phased or attach a legible descriptive document. Project is currently approved for 2 phases

- (14) Please attach the exact legal description for the property being petitioned. A legible TAX RECEIPT or PROPERTY RECORD CARD and a copy of the WARRANTY DEED are required. A current survey of such property may also be required.

- (15) **SURROUNDING PROPERTY OWNERS LIST (Provided by County Staff, for which applicant will be billed as part of application fees).**

Complete names and addresses of Property Owner's of property lying within FIVE HUNDRED FEET (500') surrounding the property legally described on PAGE 2 of this application. Names will be obtained from the latest Official County Tax Rolls, as recorded, located in the Office of the Lake County Property Appraiser.

OWNER'S AFFIDAVIT

STATE OF FLORIDA)
COUNTY OF LAKE)

BEFORE ME, the undersigned authority personally appeared Charles E. Hawthorne who being by me first duly sworn on oath, deposes and says:

1. That he/she is the fee-simple owner of the property legally described on this application.
2. That he/she desires a Mining Site Plan to accomplish the above desired request, as stated on page one of this Application.
3. That he/she has appointed _____ to act as Agent to accomplish the above.

Charles E. Hawthorne
(Owner's Signature)

STATE OF FLORIDA
COUNTY OF LAKE

The foregoing instrument was acknowledged before me this 31st day of July 2001, by Charles E. Hawthorne who is personally known to me or who has produced _____ as identification and who did or did not take an oath.

Jerry L. Baker
NOTARY PUBLIC, (Signature)

(SEAL)

Jerry L. Baker
Print or type Notary Name
Commission (serial) Number _____
My Commission Expires: _____



Jerry L. Baker
MY COMMISSION # CC888335 EXPIRES
November 16, 2003
BONDED THROUGH TROY FAIR INSURANCE, INC.

NOTE: The Owner is also required to complete the Applicant's Affidavit of this Application if no agent is appointed to act in his stead.

APPLICANT'S AFFIDAVIT

STATE OF FLORIDA
COUNTY OF LAKE

BEFORE ME, the undersigned authority personally appeared Charles E. Hawthorne
who being first duly sworn on oath, deposes
and says:

- (1) That he/she Affirms and Certifies that he/she understands and will comply with all Ordinances, Regulations, and Provisions of Lake County, and that all statements and diagrams submitted herewith and attached hereto, are true and accurate to the best of his/her knowledge and belief, and further, that this application and attachments shall become part of the Official Records of Lake County, Florida and are not RETURNABLE.
- (2) That he/she desires a Mining Site Plan to accomplish the above, as stated on Page One.
- (3) That the submittal requirements for this Application, which are attached hereto, have been completed and attached hereto as part of this Application.

Charles E. Hawthorne
(Applicant's Signature)

STATE OF FLORIDA
COUNTY OF LAKE

The foregoing instrument was acknowledged before me this 31st day of July,
2001 by Charles E. Hawthorne Who is personally known to me or who
has produced _____ as identification and who did or did not
take an oath.

Jerry L. Baker
NOTARY PUBLIC, (Signature)

(SEAL)

Jerry L. Baker
Print or type Notary Name
Commission (serial) Number _____
My Commission Expires: _____



Jerry L. Baker
MY COMMISSION # CC66834 EXPIRES
November 16, 2003
BONDED THRU TROY FAIR INSURANCE, INC.

DESCRIPTION:

THAT PORTION OF SECTIONS 22 AND 27, TOWNSHIP 24 SOUTH, RANGE 26 EAST, DESCRIBED AS FOLLOWS: COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 22; THENCE NORTH 00°38'35" WEST ALONG THE WEST BOUNDARY OF SAID SECTION 22, A DISTANCE OF 66.46 FEET; THENCE NORTH 89°40'19" EAST, 154.64 FEET TO A FOUND CONCRETE MONUMENT; THENCE CONTINUE NORTH 89°40'19" EAST, 39.03 FEET TO THE EASTERLY RIGHT OF WAY OF BOGGY MARSH ROAD AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 89°40'19" EAST, 1870.74 FEET TO A FOUND CONCRETE MONUMENT; THENCE SOUTH 00°20'35" EAST, 1340.00 FEET TO A CONCRETE MONUMENT MARKED R.L.S. 2142; THENCE NORTH 89°50'55" EAST, 341.08 FEET TO A CONCRETE MONUMENT MARKED 2142; THENCE SOUTH 00°36'30" EAST, 15.65 FEET TO A CONCRETE MONUMENT MARKED R.L.S. 2142 ON THE NORTH BOUNDARY OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF THE AFORESAID SECTION 27; THENCE NORTH 88°57'56" EAST ALONG THE SAID NORTH BOUNDARY, 213.04 FEET TO A POINT THAT IS 50.70 FEET FROM THE NORTHEAST CORNER OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4; THENCE SOUTH 03°05'34" EAST, 605.02 FEET TO THE NORTH RIGHT OF WAY LINE OF COUNTY ROAD NO. 474; THENCE SOUTH 88°55'19" WEST ALONG THE SAID RIGHT OF WAY LINE 33.83 FEET; THENCE NORTH 01°04'41" WEST, 100.00 FEET; THENCE SOUTH 88°55'19" WEST, 50.00 FEET; THENCE SOUTH 01°04'41" EAST, 100.00 FEET TO THE AFORESAID NORTH RIGHT OF WAY LINE OF COUNTY ROAD NO. 474; THENCE SOUTH 88°55'19" WEST ALONG THE SAID RIGHT OF WAY LINE, 1887.59 FEET TO THE WEST BOUNDARY OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE AFORESAID SECTION 27; THENCE NORTH 00°40'49" WEST ALONG THE SAID WEST BOUNDARY, 606.14 FEET TO THE NORTHWEST CORNER OF THE SAID NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4; THENCE NORTH 48°05'02" WEST ON A LINE TO THE SOUTHWEST CORNER OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SAID SECTION 27, A DISTANCE OF 412.15 FEET TO THE EASTERLY RIGHT OF WAY LINE OF AFORESAID BOGGY MARSH ROAD; THENCE NORTH 01°25'31" EAST ALONG SAID RIGHT OF WAY LINE, 352.42 FEET; THENCE CONTINUE ALONG SAID RIGHT OF WAY LINE, NORTH 29°50'29" WEST, 165.89 FEET; THENCE DEPARTING THE SAID RIGHT OF WAY LINE AND RUN NORTH 60°09'31" EAST, 50.00 FEET; THENCE NORTH 29°50'29" WEST, 100.00 FEET; THENCE SOUTH 60°09'31" WEST, 50.00 FEET TO THE AFORESAID EASTERLY RIGHT OF WAY LINE OF BOGGY MARSH ROAD; THENCE NORTH 29°50'29" WEST, 187.42 FEET; THENCE CONTINUE ALONG THE SAID RIGHT OF WAY LINE NORTH 04°23'01" EAST, 344.92 FEET TO THE POINT OF BEGINNING.

Wednesday, July 25, 2001

Property Records Search Results

Alternate Key: 1031699

HAWTHORNE PROPERTIES LTD

3808 DOUNE WAY
CLERMONT, FL34711

Parcel: 27-24-26-000200000800
Alt Key: 1031699 Mill Grp: 0005
Loc Notes: 15441 COUNTY ROAD 474

Legal Description:

BEG AT NW COR OF SEC RUN E 2045 FT, S 1300 FT, E 341 FT, S 17 FT, E 209 FT, S 1DEG 53MIN 20SEC E 662.02 FT, W 1956 FT, N 660 FT, N 45DEG W TO PT S OF POB, N TO POB--LESS & LYING W'LY OF E'LY LINE OF SOUTH BOGGY MARSH RD IN W 1/2 OF NW 1/4 OF NW 1/4 & LESS FROM NE COR OF SEC RUN S 1929.98 FT TO N'LY R/W LINE OF CO RD 474, W ALONG SAID N'LY R/W LINE 3736.97 FT FOR POB, CONT W 660 FT, N 1122.08 FT, N 88DEG 55MIN 19SEC E 660 FT, S 1122.08 FT TO POB--
ORB 1186 PG 890

Land Data

Line	Use	Front	Depth	Notes	# Unit	Type	Class Value	Just Value
1	9900	0	0		54.6	AC	0	273000
2	9600	0	0		6.7	AC	0	302
3	9900	0	0		3.5	AC	0	14000
Totals:							0	287302

Building Characteristics

Section Type Section Number Ext Wall Type Number of Stories Floor Area

Sales History

O.R. Book	O.R. Page	Sale Date	Instrument	Qualified/Unqualified	Vac Impr	Sale Price
0930	1796	07/01/1987	WD	M	V	340000
1186	0890	07/01/1992	CT	U	V	0

Total Just Value	Total Exempt Value	Total Taxable Value
287302	0	287302

* May Reflect Save-Our-Homes Limitations



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Wednesday, July 25, 2001

Property Records Search Results

Alternate Key: 3277970
BISHOP AND BUTTERY INC

Parcel: 27-24-26-000200002100
Alt Key: 3277970 Mill Grp: 0005
Loc Notes:

6239 EDGEWATER DR #D-1
ORLANDO, FL32810

Legal Description:

FROM NE COR OF SEC RUN S 1929.98 FT TO N'LY R/W LINE OF CO
RD 474, W ALONG SAID N'LY R/W LINE 3736.97 FT FOR POB, CONT
W 660 FT, N 1122.08 FT, N 88DEG 55MIN 19SEC E 660 FT, S
1122.08 FT TO POB
ORB 1900 PG 694

Land Data

Line	Use	Front	Depth	Notes	# Unit	Type	Class Value	Just Value
1	9900	0	0		17	AC	0	138720
Totals:							0	138720

Building Characteristics

Section Type Section Number Ext Wall Type Number of Stories Floor Area

Sales History

O.R. Book	O.R. Page	Sale Date	Instrument	Qualified/Unqualified	Vac Impr	Sale Price
1066	2174	07/01/1990	WD	Q	V	91400
1069	2301	07/01/1990	WD	U	V	0
1377	1180	07/01/1995	WD	U	V	0
1643	1844	08/20/1998	PR	U	V	0
1900	0690	01/12/2001	WD	U	V	0
1900	0694	01/12/2001	WD	Q	V	147500

Total Just Value Total Exempt Value Total Taxable Value

138720 0 138720

* May Reflect Save-Our-Homes Limitations

Sketch It



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SECTION 2

SOILS REPORT



UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering •
Environmental Sciences • Construction Materials Testing

Offices In:
• Orlando
• Gainesville
• Fort Myers
• Merritt Island
• St. Augustine
• Daytona Beach
• West Palm Beach

December 14, 1995

Bishop and Buttrey, Inc.
6239 Edgewater Drive, Suite D1
Orlando, Florida 32810

Attention: Mr. John Buttrey

Reference: Groundwater Evaluation
Pot of Gold Development (Hawthorn Borrow Pit No. 26)
Lake County, Florida
Project No. 17862-018-04
Report No. 95-1256E

Dear Mr. Buttrey:

We understand that you have applied for a Lake County mining permit for this project. One of the requirements for mining permits in this area is to demonstrate that the mining operation will have no impact on the surrounding groundwater conditions. Specifically for this project, there was the question as to whether or not stormwater that may perch above the near surface clay layer would no longer flow into the adjacent Green Swamp after the clay was excavated.

Our field exploration consisted of installing four temporary piezometers in order to measure the stabilized groundwater levels. Survey information provided by Altamonte Surveying indicated that the groundwater levels ranged from elevation 119 to 120.5 at our piezometer locations. By deriving groundwater contours, it is evident that the predominant groundwater flow at this is from west to east towards the Boggy Marsh which is part of the Green Swamp. The water level within the Boggy Marsh was measured at elevation 117.8 on the same day. There appears to be a peak in the groundwater regime within the central portion of the site so that the northeastern portion of the site drains toward the swamp to the northeast of the project. Therefore, when the near surface clay layer is removed from the site, stormwater will infiltrate to the natural groundwater table and flow into the Boggy Marsh, thus having no impact on the Green Swamp. The derived groundwater contours are presented on the attached groundwater contour map.

We anticipate that during the wet season, the groundwater levels will rise on the order of 2- to 3-feet above the existing levels measured at our piezometer locations. This will still be well below the bottom of the excavation.

Additionally, we performed one soil boring advanced to a depth of 150-feet in order to evaluate the depth to the confining layer and limestone layer. After completing this boring, the borehole was backfilled with cement grout. Detailed descriptions of the soil encountered are presented in the attached boring log.

Bishop and Buttrey, Inc.

Attention: Mr. John Buttrey

Reference: Groundwater Evaluation

Pot of Gold Development (Hawthorn Borrow Pit No. 26)

Lake County, Florida

Project No. 17862-018-04

Report No. 95-1256E

December 14, 1995

Page No. 2

We appreciate the opportunity to have worked with you on this project and look forward to a continued association. If you should have any questions, or if you need further assistance, or discussion of your development options for this project, please do not hesitate to call.

Respectfully submitted,

UNIVERSAL ENGINEERING SCIENCES, INC.



Mark C. Israel, P.E.

Project Manager



Bruce H. Woloshin, P.E.

P.E. No. 36734

Manager - Geotechnical Engineering





UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering ·
Environmental Sciences · Construction Materials Testing

Offices In:
· Orlando
· Gainesville
· Fort Myers
· Merritt Island
· St. Augustine
· Daytona Beach
· West Palm Beach

December 22, 1995

Bishop and Buttrey, Inc.
6239 Edgewater Drive, Suite D1
Orlando, Florida 32810

Attention: Mr. John Buttrey

Reference: Geotechnical Exploration
Pot of Gold Development (Hawthorn Borrow Pit No. 26)
Lake County, Florida
Project No. 17862-018-01

Dear Mr. Buttrey:

At your request Universal Engineering Sciences has performed a deep soil boring (through the confining layer and into the limestone) at a location selected by Ms. Rebecca Jetton. The boring log and boring location plan are included with this letter.

We appreciate the opportunity to have worked with you on this project and look forward to a continued association. If you should have any questions, or if you need further assistance, or discussion of your development options for this project, please do not hesitate to call.

Respectfully submitted,

UNIVERSAL ENGINEERING SCIENCES, INC.

Mark C. Israel, P.E.
Senior Project Engineer



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.:

PAGE: A-2.1

PROJECT: POT O' GOLD

BORING DESIGNATION:
SECTION: 27

B-1A

SHEET: **1 of 3**
RANGE: 26

LAKE COUNTY, FLORIDA

CLIENT: BISHOP & BUTTREY, INC.

G.S. ELEVATION (ft): 149.0

DATE STARTED: 11/13/95

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft):

DATE FINISHED: 11/14/95

REMARKS:

DATE OF READING:

DRILLED BY: UES - ORLANDO

EST. S.H.W.T. (ft):

TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG. CONT. (%)
									LL	PI		
0						Very loose brown fine SAND [A-3]						
	X	2-1-2	3									
	X	2-1-2	3			-- light gray-brown						
	X	2-2-6	8			-- loose						
5	X	9-10-15	25			Medium dense orange & brown clayey SAND [A-2, A-6]						
	X	9-11-16	27									
10	X	15-15-20	35			-- dense						
	X	4-14-21	35									
15	X					Dense light gray fine SAND [A-3]						
	X	5-10-11	21			-- medium dense						
20	X											
	X	9-10-14	24									
25	X											
	X	10-20-25	45			-- dense						
30	X											
	X	8-9-11	20			-- medium dense						
35	X											
	X	10-14-17	31			-- dense						
40	X											
	X	9-13-20	33									
45	X											
	X	7-22-29	51			Very dense light gray to white fine SAND with silt [A-3, A-2]						
50	X											
	X	9-17-22	39			-- dense						
55	X											



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.:

PAGE: A-2.2

PROJECT: POT O' GOLD
LAKE COUNTY, FLORIDA

BORING DESIGNATION:
SECTION: 27

B-1A
TOWNSHIP: 24

SHEET: **2 of 3**
RANGE: 26

DEPTH (FT.)	SAMP PLE	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SY MB OL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG. CONT. (%)
									LL	PI		
55												
60	X	10-14-21	35			Dense light gray to white silty fine SAND [A-2]						
65	X	7-14-16	30			-- medium dense						
70	X	2-5-6	11									
75	X	6-7-9	16			Medium dense orange fine SAND [A-3]						
80	X	3-5-12	17			-- light yellowish gray-brown						
85	X	3-4-3	7			-- loose						
90	X	1-1-3	4			-- very loose						
95	X	1-1-1	2			Very loose gray-green clayey SAND [A-2, A-6]						
100	X	0-0-1	1			-- light orange						
105	X	2-3-3	6			- loose						
110	X	4-10-17	27			Medium dense dark green silty SAND [A-2]						



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 17862-018-03

REPORT NO.:

PAGE: A-2.3

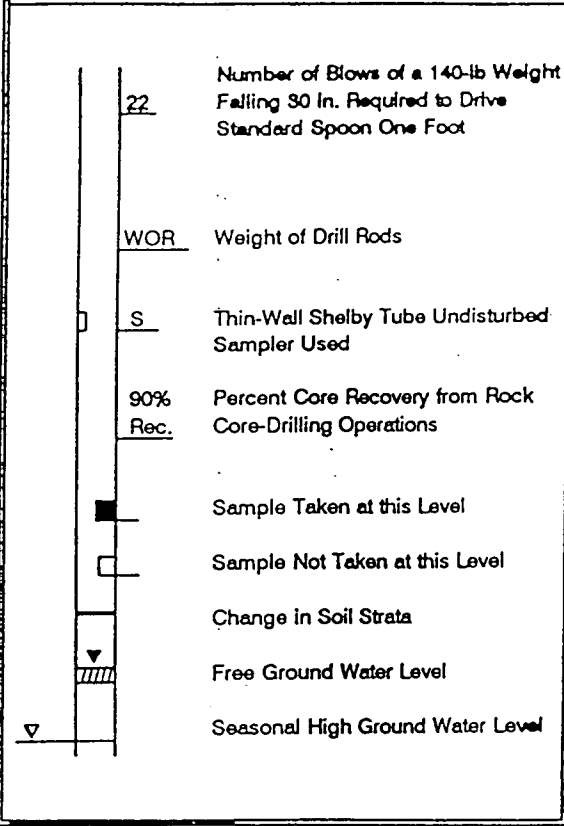
PROJECT: POT O' GOLD
LAKE COUNTY, FLORIDA

BORING DESIGNATION: **B-1A**
SECTION: 27 TOWNSHIP: 24

SHEET: **3 of 3**
RANGE: 26

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT./ DAY)	ORG. CONT. (%)
									LL	PI		
110												
115	X	6-8-12	20			Medium dense light brown to tan SAND & highly decomposed LIMESILT						
120	X	39-23-34	57	-- very dense								
125	X	14-21-100	100/14"									
130	X	35-100	100/8"									
135	X	65-55-31	86									
140	X	3-10-13	23	-- medium dense								
145	X	9-12-12	24									
150	X	100	100/4"				Light brown to tan fragmented LIMESTONE BORING TERMINATED AT 150.0'					
155												
160												
165												

00719

SYMBOLS

**RELATIVE DENSITY
(sand-silt)**

- Very Loose - Less Than 4 Blows/Ft.
- Loose - 4 - 10 Blows/Ft.
- Medium - 10 to 30 Blows/Ft.
- Dense - 30 to 50 Blows/Ft.
- Very Dense - More Than 50 Blows/Ft.

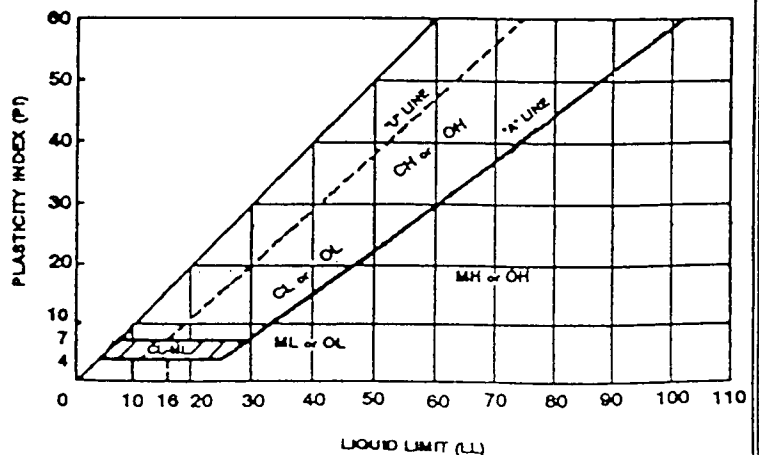
**CONSISTENCY
(clay)**

- Very Soft - Less Than 2 Blows/Ft.
- Soft - 2 to 4 Blows/Ft.
- Medium - 4 to 8 Blows/Ft.
- Stiff - 8 to 15 Blows/Ft.
- Very Stiff - 15 to 30 Blows/Ft.
- Hard - More Than 30 Blows/Ft.

UNIFIED CLASSIFICATION SYSTEM

MAJOR DIVISIONS		GROUP SYMBOLS	TYPICAL NAMES
COARSE-GRAINED SOILS More than 50% retained on No. 200 sieve*	GRAVELS 50% or more of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS	GW Well-graded gravels and gravel-sand mixtures, little or no fines
		GRAVELS WITH FINES	GP Poorly graded gravels and gravel-sand mixtures, little or no fines
			GM Silty gravels, gravel-sand-silt mixtures
	SANDS More than 50% of coarse fraction passes No. 4 sieve	CLEAN SANDS	GC Clayey gravels, gravel-sand-clay mixtures
			SW Well-graded sands and gravelly sands, little or no fines
		SANDS WITH FINES	SP Poorly graded sands and gravelly sands, little or no fines
FINE-GRAINED SOILS 50% or more passes No. 200 sieve*	SILTS AND CLAYS Liquid limit 50% or less		SM Silty sands, sand-silt mixtures
			SC Clayey sands, sand-clay mixtures
			ML Inorganic silts, very fine sands, rock flour, silty or clayey fine sands
	SILTS AND CLAYS Liquid limit greater than 50%		CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL Organic silts and organic silty clays of low plasticity
			MH Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts
	CH Inorganic clays or high plasticity, fat clays		
	OH Organic clays of medium to high plasticity		
Highly Organic Soils	PT	Peat, muck and other highly organic soils	

* Based on the material passing the 3-in. (75-mm) sieve.

PLASTICITY CHART


Project: HATHORN BORROW PIT

Job Number: 17862-018-03\719Sheet1 of 1

Manager: MI Client: BISHOP AND BUTTREY Project Description: _____
Location: FLA _____
FLA _____
Elevation Datum: _____

Boring Depth Elev.	Specimen Description				Water Content	Organic Content	ASTM Class	K ft/day	Sieve Analysis				
	LL	PL	PI	No 200					No 4	No 10	No 40	No 60	No 100
B-1 25.0							3.1						
B-2 25.0							1.3						
B-3 20.0							10.0						
B-5 25.0							6.0						
B-6 10.0							11.0						

Summary of
Material Properties

UNIVERSAL ENGINEERING SCIENCES, INC.
ORLANDO, FLORIDA



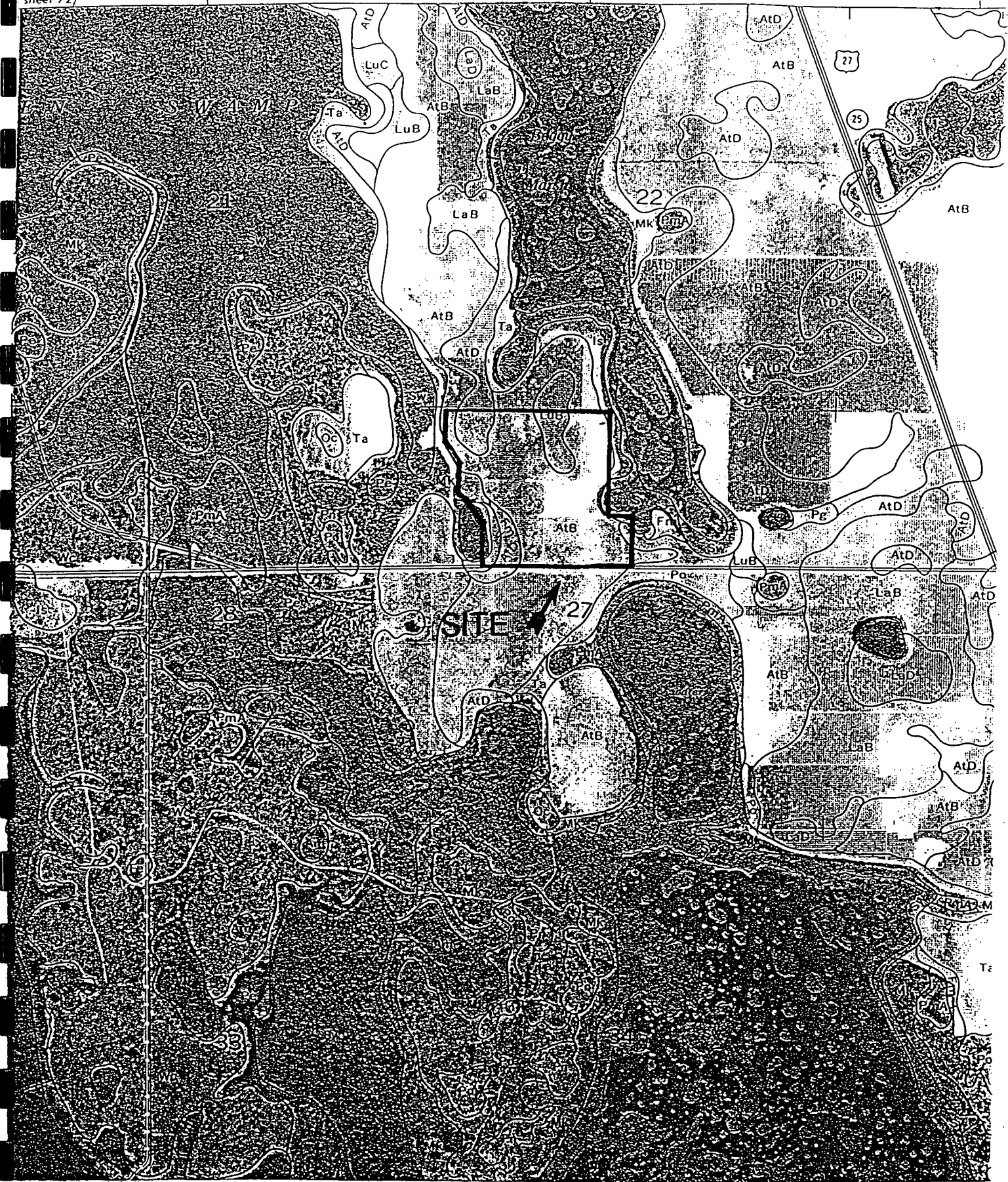
DESCRIPTION OF LABORATORY TESTING PROCEDURES

LABORATORY PERMEABILITY TEST

The laboratory permeability test is a Falling Head Test that is performed on soil samples recovered from this site. The data recovered from this test are used to calculate Darcy's Coefficient of Permeability (k) of the soil.

sheet 72)

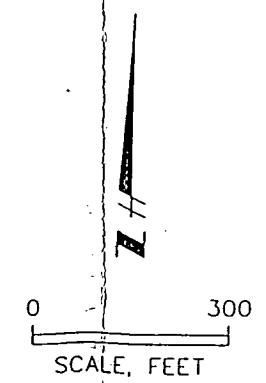
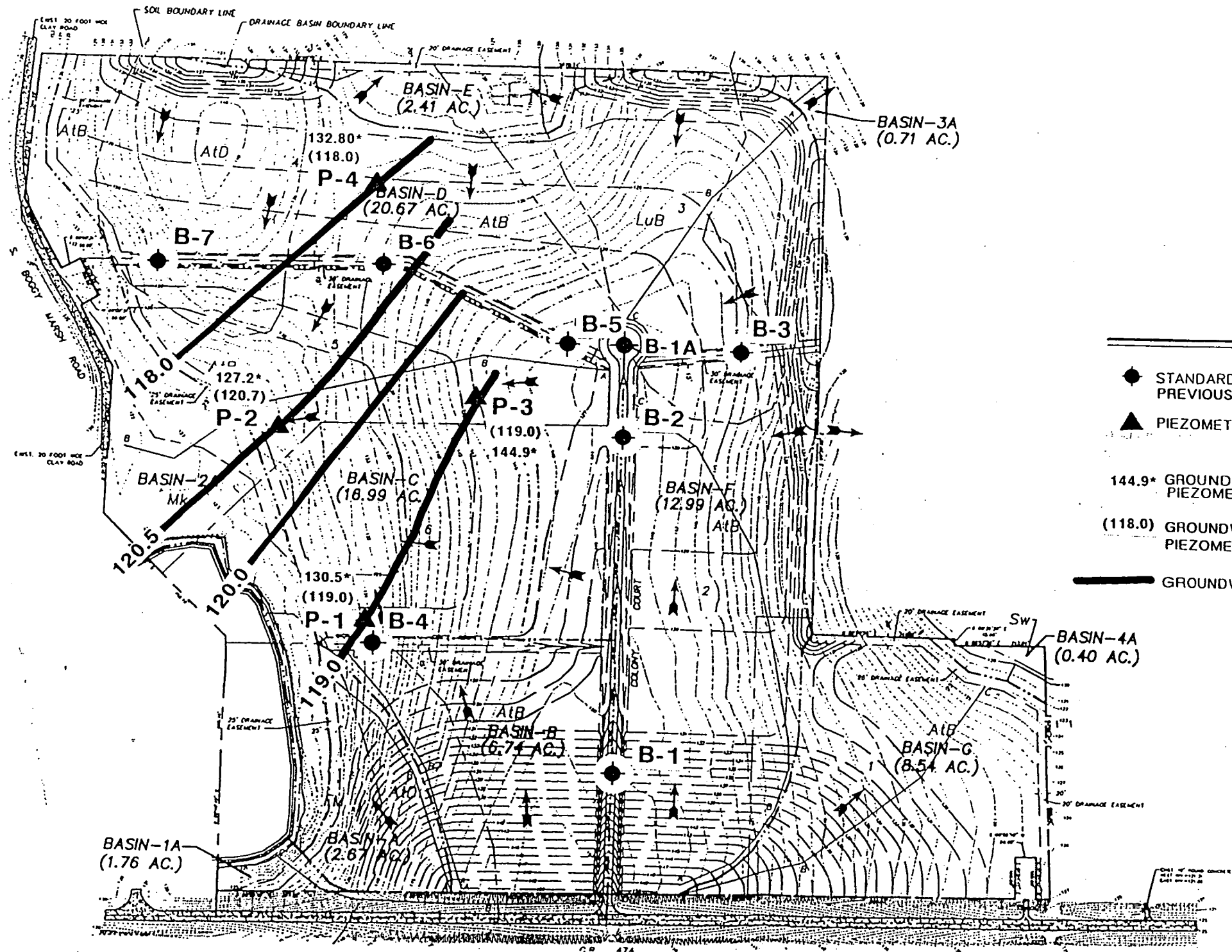
R. 26 E



SCALE 1" = 1667'

SCS SOILS MAP
 POT OF GOLD S/D
 SEC 27 TWP 24S RNG 26E

H0233-01



LEGEND

- STANDARD PENETRATION TEST BORING LOCATION PREVIOUSLY PERFORMED BY U.S.
- ▲ PIEZOMETER LOCATION
- 144.9* GROUND SURFACE ELEVATION AT PIEZOMETER LOCATION (FT.)
- (118.0) GROUNDWATER ELEVATION AT PIEZOMETER LOCATION (FT.)
- GROUNDWATER CONTOUR (FT.)

POT O' GOLD
LAKE COUNTY, FLORIDA

BISHOP & BUTTREY, INC.

FOR:

GROUNDWATER CONTOUR PLAN

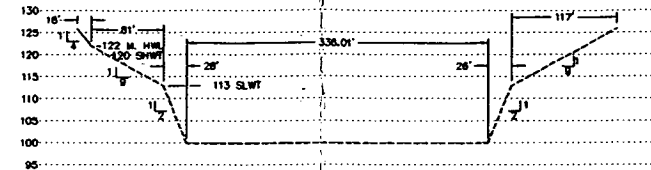
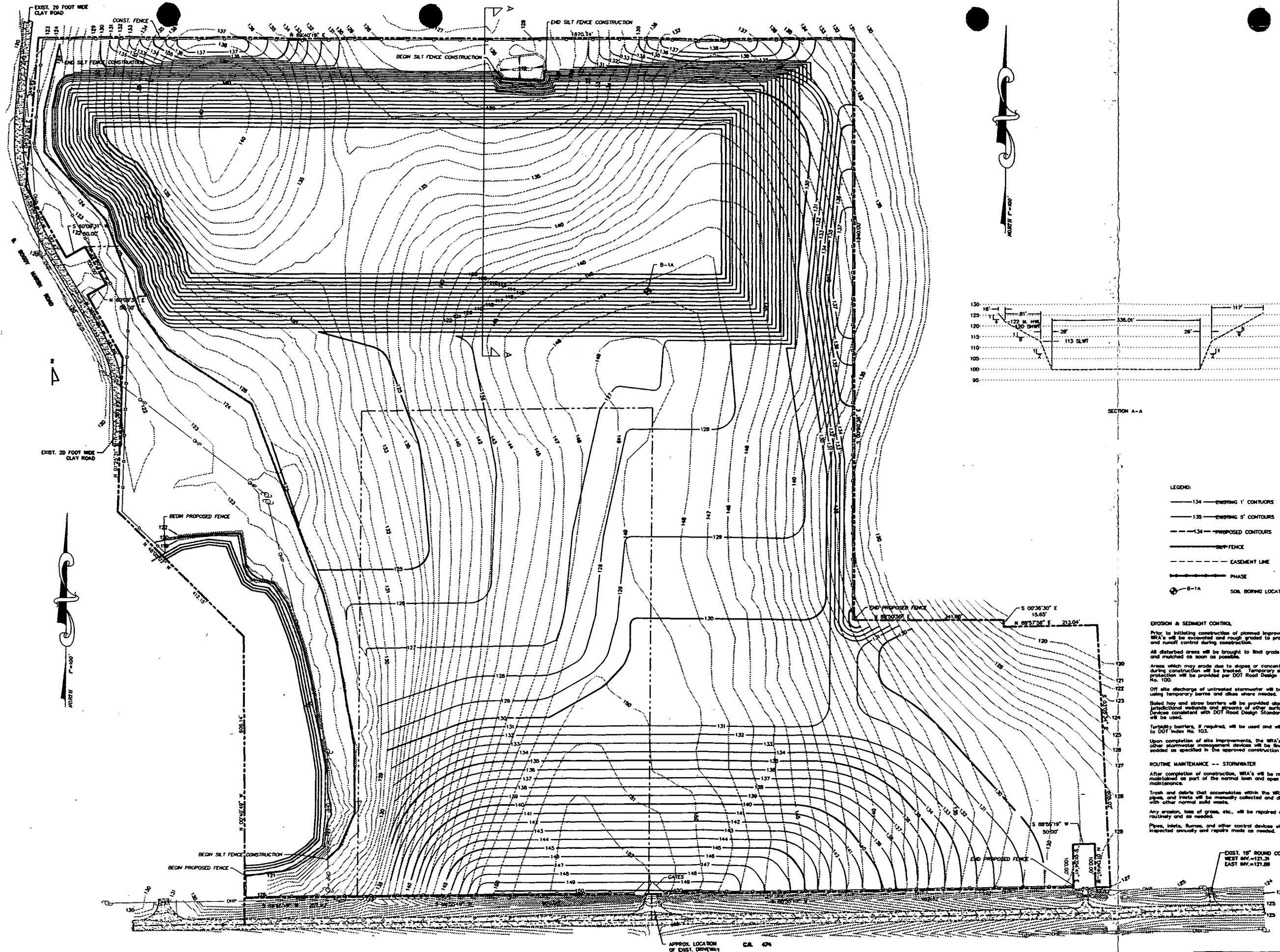


FOR:	BISHOP & BUTTREY, INC.
DRAWN BY:	R.K.S.
CHECKED BY:	MCJ
REPORT NO.:	95-1256E
PROJECT NO.:	17862-018-04
DATE:	12/19/95
DATE:	12/19/95
SCALE:	AS SHOWN

PAGE NO:

SECTION 3

**RECREATIONAL LAKE
EXCAVATION PLAN**



SECTION A-A

- LEGEND:
- 134 — EXISTING 1' CONTOURS
 - 135 — EXISTING 5' CONTOURS
 - - - 134 - - - PROPOSED CONTOURS
 - - - - - SILT FENCE
 - - - - - EASEMENT LINE
 - - - - - PHASE
 - B-1A SOIL BORING LOCATION

EROSION & SEDIMENT CONTROL

Prior to initiating construction of planned improvements, all WRA's will be excavated and rough graded to provide sediment and runoff control during construction.

All disturbed areas will be brought to final grade and seeded and mulched as soon as possible.

Areas which may erode due to slopes or concentrated runoff during construction will be treated. Temporary slope drain protection will be provided per DOT Road Design Standard Index No. 100.

Off site discharge of untreated stormwater will be prevented using temporary berms and dikes where needed.

Baled hay and straw barriers will be provided along jurisdictional wetlands and streams of other surface waters. Devices consistent with DOT Road Design Standard Index No. 102 will be used.

Turbidity barriers, if required, will be used and will conform to DOT Index No. 103.

Upon completion of site improvements, the WRA's, swales, and other stormwater management devices will be final graded and seeded as specified in the approved construction plans.

ROUTINE MAINTENANCE -- STORMWATER

After completion of construction, WRA's will be mowed and maintained as part of the normal lawn and open space maintenance.

Trash and debris that accumulates within the WRA's, swales, dikes, and berms will be manually collected and disposed of with other normal solid waste.

Any erosion, loss of grass, etc., will be repaired or replaced routinely and as needed.

Pipes, inlets, burners, and other control devices will be inspected annually and repairs made as needed.

EXIST. 18" ROUND CONCRETE PIPE
WEST INV.=121.24
EAST INV.=121.28

W C WICKS CONSULTING SERVICES, INC.
 W S
 1240 242-4847 228 West State Street Tallahassee, Florida 32301-1841
 Telephone: 904-242-4847 Fax: 904-242-4848

CHARLES HAWTHORNE
 P.O. BOX 289
 WINDERMERE, FLORIDA 34786
 (407) 857-0808

HAWTHORNE PROPERTIES, LTD.
MINING SITE PLAN AMENDMENT
(F/K/A BISHOP & BUTTREY, INC.)

Drawn: tir	DATE:
Checked: tw	
Date: 7-27-01	
Scale: 1"=100'	
File No.: 144-01	Sheet: 1 Of: 1

KENNETH R. WICKS, P.E. FL. REG. NO. 33274
 DATE:

SECTION 4

RECLAMATION PLAN

Reclamation Plan

The excavation project originally proposed to achieve reclamation via the construction of a seven (7) lot single family subdivision. The plan provided for the construction of a single roadway and stormwater management system to serve the project. The finished grading of the lots and adjacent open space areas was to be completed as the excavation was finished in each Phase.

The Mining Site Plan is proposed to be modified to allow the construction of a recreational lake as part of the project reclamation. The pond construction is detailed on the enclosed revised plan. The remaining open space will be re-graded and revegetated as described in the following sections.

Reclamation and Recontouring

Reclamation shall commence within ninety (90) days after excavation within the project area or phase is complete. Stabilization and revegetation of all disturbed areas shall be commenced within 30 days, and will be completed within 120 days, following completion of regrading within the project area or within an area where excavation is complete.

Regrading and recontouring of the excavated areas will result in 10:1 slopes as an average condition at the limits of excavation as shown on the plans. The slopes adjacent to the recreational lake will be 9:1.

The site area will be regraded to leave the soil in the best possible condition for planting. The topsoil which has been stockpiled will be placed over the disturbed area to a depth sufficient to allow re-establishment of vegetation and to promote the propagation and survival of natural species. If needed, the disturbed soil will be ripped prior to the addition of the topsoil to break up any compaction. In areas where clay or clayey sands are encountered, a minimum of 1.5 feet of clean sand or topsoil will be provided.

Revegetation of recontoured and disturbed areas shall be as described below, so as to achieve permanent vegetative cover, which will minimize soil erosion and surface water runoff. Should washouts, rills, gullies, or the like develop after revegetation has effectively occurred, such areas will be repaired and slopes stabilized by seeding and mulching with bahia grass and hay per the procedures described below.

Disturbed areas will receive native topsoil applied with incorporated native grasses from adjacent work areas. This application of topsoil to disturbed areas will allow rapid revegetation, thus impeding soil and sediment transport. These areas will also be overseeded and possibly fertilized if additional soil nutrients are necessary. The *Soil Conservation Service: Technical Guide 342-1, May 1986, Critical Area Planting* (Planting

Plan) will be followed. The Planting Plan is adopted as the recommended methodology for erosion control and stabilization within the project work area. Revegetation will utilize native grasses and trees as deemed appropriate for a specific area being reclaimed.

Revegetation efforts will be deemed adequate if at the end of one year an established ground cover exists over 80% of the recontoured and disturbed areas. Regular maintenance and upkeep of reclaimed areas shall be performed. All land areas, at the end of two (2) years after completion of initial reclamation, will have established ground cover over at least 95% of the reclaimed area, excluding roads, groves, and row crops.

Revegetation efforts will commence within 30 days after completion of grading and shall be completed within 120 days.

Should any excavated and disturbed area remain inactive (no mining activity) for 24 months or more, stabilization and revegetation will be initiated immediately. All requirements as stated will apply to those areas identified as inactive.

The project plans provide for specific erosion and sediment control practices during the excavation process. The erosion control devices and other requirements will be placed or implemented prior to initiating the site work. The final grading plan provides for the appropriate stormwater management facility to meet County and State requirements. The specific erosion and sediment control devices will remain in place throughout the life of the project.

Dust and fugitive particles generated by the disturbed area will be controlled by watering. Regrading, recontouring, and revegetation will be initiated within areas where excavation is completed as soon as is practical and no later than the schedule outlined above.