

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Notice of Treatment

Applicator Florida Pest Control & Chemical Co.

Address 536 SE DANA

City DADE CITY **Phone** 771-1707

Site Location **Subdivision**

Lot# **Block#** **Permit#** 21786

Address

AREAS TREATED

Area Treated	Date	Time	Gal.	Print Technician's Name
Main Body	3/26/04	12:00	1.00	
Patio/s #				
Stoop/s #				
Porch/s #				
Brick Veneer				
Extension Walls				
A/C Pad				
Walk/s #				
Exterior of Foundation				
Driveway Apron				
Out Building				
Tub Trap/s				
(Other)				

Name of Product Applied Baythran 7K 5 %

Remarks

Applicator - White • Permit File - Canary • Permit Holder - Pink

Index of Plans

Sheet No.	Sheet Description
1	Key Sheet
2	Plan & Drainage Sheet
3	Drainage Details
4	Erosion Control

Construction Plan

Keith Shaw - Office Building

Sec. 36 - T3S - R16E

Columbia County, Florida

RECEIVED

S. R. W. M. D.

AUG 16 2005

ORIGINAL TO FILE

COPIES TO

CR095-0224M

The Contractor shall verify all existing conditions and dimensions at the job site to ensure that all work will fit in the manner intended on the plans. Should any conditions exist that are contrary to those shown on the plans, the Contractor shall notify the Engineer of such differences immediately and prior to proceeding with the work.

All disturbed areas shall be seeded with a mixture of long-term vegetation and short-term vegetation. The long-term vegetation shall be applied at a minimum rate of 70 pounds per acre. The short-term vegetation shall be applied at a minimum rate of 20 pounds per acre and shall consist of winter rye from September through March and millet from April through August.

The permittee shall institute necessary measures during construction to minimize erosion, turbidity, nutrient loading, and sedimentation to adjacent lands and in the receiving waters.

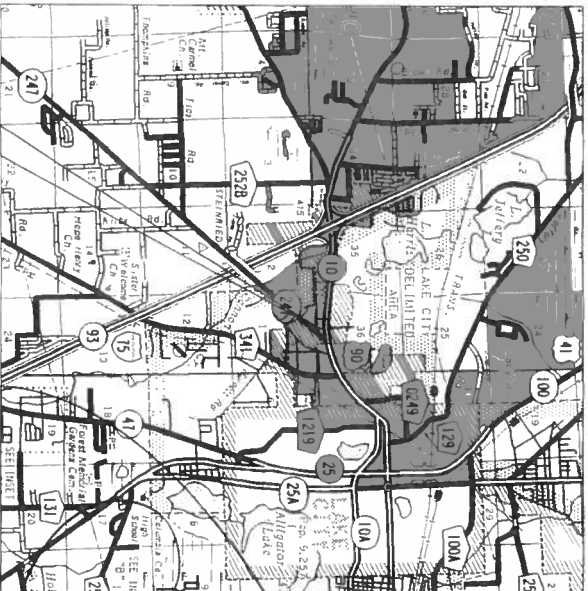
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Where ditch has to be deeper than normal to accommodate a pipe the transition from normal ditch grade to pipe flow line shall be a minimum length of one hundred feet.

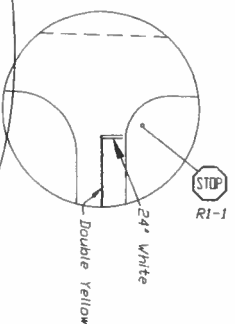
The Contractor shall adhere to the Erosion and Sedimentation Control Plan from before earthwork begins until as-builts are completed.

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
ROADWAY AND TRAFFIC DESIGN STANDARDS DATED
JANUARY 2000, AND STANDARD SPECIFICATIONS
FOR ROAD AND BRIDGE CONSTRUCTION DATED
2000, AS AMENDED BY CONTRACT DOCUMENTS.

Location of Project



Intersection Signing & Marking Detail
Construct Signing & Marking DOT
Index Nos. 17302, 11860, & 17346



ENGINEER
ARTHUR N. BEDENBAUGH
637 SW HILLCREST ST
LAKE CITY, FL 32025
386-752-5846

DOWNER
KEITH SHAW
4220 W. U.S. HWY. 90
LAKE CITY, FL 32025
386-753-9070

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED BY REPRODUCTION

Engineer of Record: Arthur N. Bedenbaugh

P.E. No.: 9162

S-15-05

SHEET

1

REVISIONS

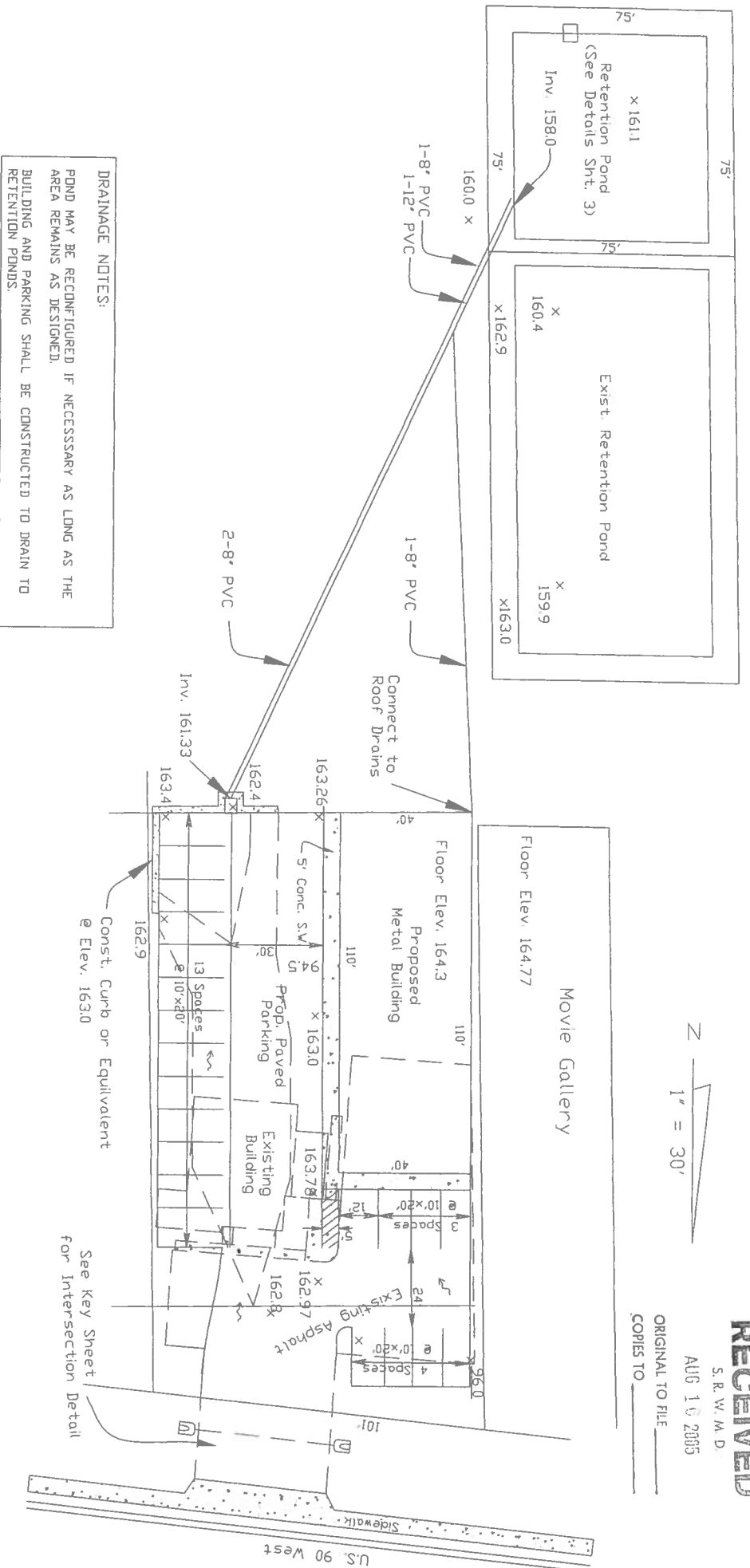
4/1/05 Pond Relocation
7/9/05 Wet Pond

С. В. МАТВЕЕВ

A11C 1/00

REC 10 2000

S TO _____



Legend

DRAINAGE NOTES:

POND MAY BE RECONFIGURED IF NECESSARY AS LONG AS THE AREA REMAINS AS DESIGNED.

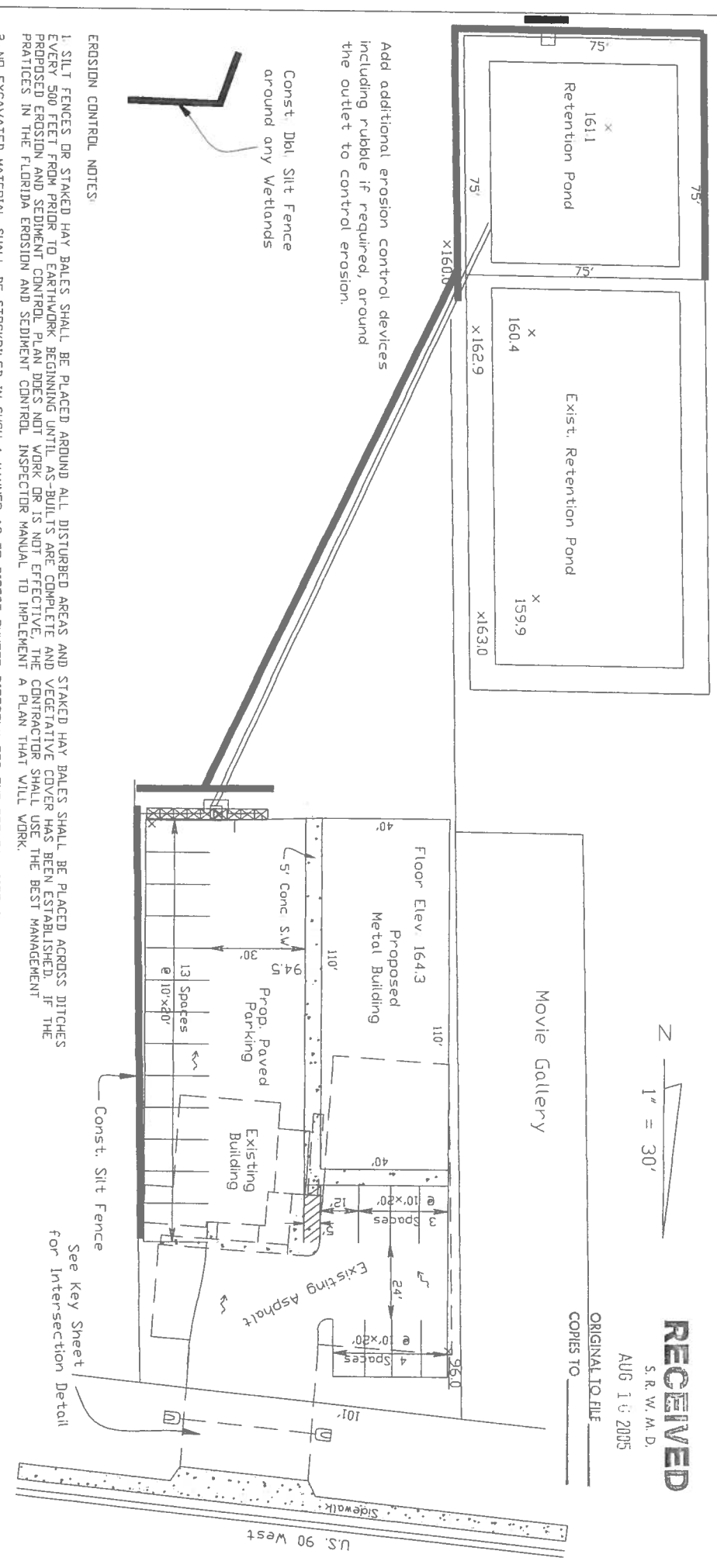
BUILDING AND PARKING SHALL BE CONSTRUCTED TO DRAIN TO RETENTION PONDS.

Revisions		Description	SHEET
Date	By		
		ARTHUR N. BENDENBUCH, P.E. 9162 637 SW HILLOREST ST #1A MC CITY, FLORIDA 32825 TELEPHONE (306) 752-5846	SHEET 2
		KEITH SHAW OFFICE BUILDING	
		Columbia County JOB NUMBER: 08-2000	PLAN & DRAINAGE SHEET

N
1" = 30'

RECEIVED
S. R. W. M. D.
AUG 10 2005

ORIGINAL TO FILE
COPIES TO _____



EROSION CONTROL NOTES:

1. SILT FENCES OR STAKED HAY BALES SHALL BE PLACED AROUND ALL DISTURBED AREAS AND STAKED HAY BALES SHALL BE PLACED ACROSS DITCHES EVERY 500 FEET FROM PRIOR TO EARTHWORK. BEGINNING UNTIL AS-BUILTS ARE COMPLETE AND VEGETATIVE COVER HAS BEEN ESTABLISHED. IF THE PROPOSED EROSION AND SEDIMENT CONTROL PLAN DOES NOT WORK OR IS NOT EFFECTIVE, THE CONTRACTOR SHALL USE THE BEST MANAGEMENT PRACTICES IN THE FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR MANUAL TO IMPLEMENT A PLAN THAT WILL WORK.
2. NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
3. ALL EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH FLORIDA STORMWATER EROSION AND SEDIMENT CONTROL INSPECTORS MANUAL.
4. ALL CONTROLS SHALL BE INSPECTED DAILY AND AFTER THE END OF EACH RAINFALL 0.5 INCHES OR GREATER
5. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
6. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT THE TIME OF ACCEPTANCE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO MEET ALL APPLICABLE NPDES REGULATIONS AND TO ACQUIRE ANY NECESSARY PERMITS.

Legend

- X 96.5 - Exist. Elevation
- 96.5 - Proposed Elevation
- ~ - Flow of Water
- ☒ - Hay Bales
- - Silt Fence

See Key Sheet
for Intersection Detail

Revisions		Description	
Date	By	Date	By
ARTHUR N. BENDENBAUGH, P.E. 9162		KEITH SHAW	
637 SW HILLCREST ST #4000, FLORIDA 32835		OFFICE BUILDING	
TELEPHONE: (386) 752-2846		Columbia County	
		JOB NUMBER: 08-2000	
		EROSION CONTROL 8-15-05	
		SHEET 4	



**SUWANNEE
RIVER
WATER
MANAGEMENT
DISTRICT**

9225 CR 49
LIVE OAK, FLORIDA 32060
TELEPHONE: (386) 362-1001
TELEPHONE: 800-226-1066
FAX (386) 362-1056

GENERAL PERMIT

PERMITTEE:

LARRY KEITH SHAW
POST OFFICE BOX 2759
LAKE CITY, FL 32056

PERMIT NUMBER: ERP95-0224M2

DATE ISSUED: 08/31/2005

DATE EXPIRES: 08/31/2008

COUNTY: COLUMBIA

TRS: S36/T3S/R16E

PROJECT: KEITH SHAW PARKING AREA MODIFICATION

Approved entity to whom operation and maintenance may be transferred pursuant to rule 40B-4.1130, Florida Administrative Code (F.A.C.):

LARRY KEITH SHAW
POST OFFICE BOX 2759
LAKE CITY, FL 32056

Based on information provided, the Suwannee River Water Management District's (District) rules have been adhered to and an environmental resource general permit is in effect for the permitted activity description below:

Previous permit issued for .37 acres of impervious surfaces on .47 acres. Modification consists of redesigning and relocating the retention pond. The project shall be constructed and maintained in a manner consistent with the application package submitted by Arthur Bedenbaugh, certified on August 15, 2005.

It is your responsibility to ensure that adverse off-site impacts do not occur either during or after construction. Any additional construction or alterations not authorized by this permit may result in flood control or water quality problems both on and off site and will be a violation of District rule.

You or any other substantially affected persons are entitled to request an administrative hearing pursuant to ss.120.57(1), Florida Statutes (F.S.), and s.40B-1.511, F.A.C., if they object to the District's actions. Failure to request a hearing within 14 days will constitute a waiver of your right to request such a hearing. In addition, the District will presume that permittee waives Chapter 120, F.S., rights to object or appeal the action upon commencement of construction authorized by the

Permit No.: ERP95-0224M2

Project: KEITH SHAW PARKING AREA MODIFICATION

Page 2 of 8

permit.

This permit is issued under the provisions of chapter 373, F.S., chapter 40B-4, and chapter 40B-400, F.A.C. A general permit authorizes the construction, operation, maintenance, alteration, abandonment, or removal of certain minor surface water management systems. This permit authorizes the permittee to perform the work necessary to construct, operate, and maintain the surface water management system shown on the application and other documents included in the application. This is to notify you of District's agency action concerning Notice Of Intent. This action is taken pursuant to rule 40B-4 and 40B-400, F.A.C.

Standard Conditions for All General Permits:

1. The permittee shall perform all construction authorized in a manner so as to minimize adverse impacts to fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during construction including riprap, reinforcement, or compaction of any fill materials placed around newly installed structures, to minimize erosion, turbidity, nutrient loading, and sedimentation in the receiving waters.
2. Water quality data representative of the water discharged from the permitted system, including, but not limited to, the parameters in chapter 62-302, F.A.C., shall be submitted to the District as required. If water quality data are required, the permittee shall provide data as required on the volume and rate of discharge including the total volume discharged during the sampling period. All water quality data shall be in accordance with and reference the specific method of analysis in "Standard Methods for the Examination of Water and Wastewater" by the American Public Health Association or "Methods for Chemical Analysis of Water and Wastes" by the U.S. Environmental Protection Agency.
3. The operational and maintenance phase of an environmental resource permit will not become effective until the owner or his authorized agent certifies that all facilities have been constructed in accordance with the design permitted by the District. If required by the District, such as-built certification shall be made by an engineer or surveyor. Within 30 days after the completion of construction of the system, the permittee shall notify the District that the facilities are complete. If appropriate, the permittee shall request transfer of the permit to the responsible entity approved by the District for operation and maintenance. The District may inspect the system and, as necessary, require remedial measures as a condition of transfer of the permit or release for operation and maintenance of the system.
4. Off-site discharges during and after construction shall be made only through the facilities authorized by the permit. Water discharged from the project shall be through structures suitable for regulating upstream stage if so required by the District. Such discharges may be subject to

Permit No.: ERP95-0224M2

Project: KEITH SHAW PARKING AREA MODIFICATION

Page 3 of 8

operating schedules established by the District.

5. The permit does not convey to the permittee any property right nor any rights or privileges other than those specified in the permit and chapter 40B-1, F.A.C.

6. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, operation, maintenance, alteration, abandonment, or development in a Works of the District which is authorized by the permit.

7. The permit is issued based on the information submitted by the applicant which reasonably demonstrates that adverse off-site water resource impacts will not be caused by the permitted activity. It is the responsibility of the permittee to insure that such adverse impacts do not in fact occur either during or after construction.

8. It is the responsibility of the permittee to obtain all other clearances, permits, or authorizations required by any unit of local, state, or federal government.

9. The surfacewater management system shall be constructed prior to or concurrent with the development that the system is intended to serve and the system shall be completed within 30 days of substantial completion of the development which the system is intended to serve.

10. Except for General Permits After Notice or permits issued to a unit of government, or unless a different schedule is specified in the permit, the system shall be inspected at least once every third year after transfer of a permit to operation and maintenance by the permittee or his agent to ascertain that the system is being operated and maintained in a manner consistent with the permit. A report of inspection is to be sent to the District within 30 days of the inspection date. If required by chapter 471, F.S., such inspection and report shall be made by an engineer.

11. The permittee shall allow reasonable access to District personnel or agents for the purpose of inspecting the system to insure compliance with the permit. The permittee shall allow the District, at its expense, to install equipment or devices to monitor performance of the system authorized by their permit.

12. The surfacewater management system shall be operated and maintained in a manner which is consistent with the conditions of the permit and chapter 40B-4.2040, F.A.C.

13. The permittee is responsible for the perpetual operation and maintenance of the system unless the operation and maintenance is transferred pursuant to chapter 40B-4.1130, F.A.C., or the permit is modified to authorize a new operation and maintenance entity pursuant to chapter 40B-4.1110, F.A.C.

Permit No.: ERP95-0224M2

Project: KEITH SHAW PARKING AREA MODIFICATION

Page 4 of 8

14. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.

15. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

16. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.

17. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site-specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

18. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than seven days after the construction activity in that portion of the site has temporarily or permanently ceased.

19. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40B-1.901(14) indicating the actual start date and the expected completion date.

20. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40B-1.901(15). These forms shall be submitted during June of each following year.

21. For those systems which will be operated or maintained by an entity requiring an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the

system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by Paragraph 40B-4.2030(2)(g), F.A.C., and Rule 40B-4.2035, F.A.C., must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of District rules will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or Clerk of the Circuit Court must be so recorded prior to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

22. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.

23. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, using the supplied As-Built Certification Form No. 40B-1.901(16) incorporated by reference in Subsection 40B-1.901(16), F.A.C. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:

- a. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;

- b. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;
- c. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine stage-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;
- d. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;
- e. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;
- f. Existing water elevation(s) and the date determined; and
- g. Elevation and location of benchmark(s) for the survey.

24. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of the condition in paragraph 23 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with Rule 40B-4.2035, F.A.C., accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the approved responsible operation and maintenance operating entity if different from the permittee. Until the permit is transferred pursuant to Rule 40B-4.1130, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

25. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior to implementation so that a determination can be made whether a permit modification is required.

26. This permit does not eliminate the necessity to obtain any required federal, state, local and special District authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and in this chapter and Chapter 40B-4, F.A.C.

27. The permittee is hereby advised that Section 253.77, F.S., states that a person may not

Permit No.: ERP95-0224M2

Project: KEITH SHAW PARKING AREA MODIFICATION

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commence any excavation, construction, or other activity involving the use of sovereign or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

28. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under 40B-400.046, F.A.C., provides otherwise.

29. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rule 40B-4.1130, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.

30. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.

31. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

Special limiting conditions made part of this permit are as follows:

32. Construction shall begin within 60 days from the issue date. Failure to begin the work within 60 days from the issue date will result in an \$8000 penalty.

33. Construction shall be completed within 240 days from the issue date. Failure to complete the work within 60 days from the issue date will result in an \$8000 penalty.

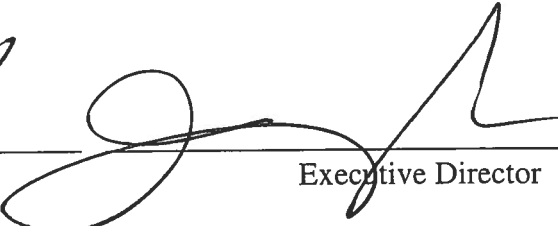
Permit No.: ERP95-0224M2

Project: KEITH SHAW PARKING AREA MODIFICATION

Page 8 of 8

WITHIN 30 DAYS AFTER COMPLETION OF THE PROJECT, THE PERMITTEE SHALL
NOTIFY THE DISTRICT, IN WRITING, THAT THE FACILITIES ARE COMPLETE.

Approved by  Date Approved 8-31-05
District Staff

 
Clerk Executive Director

Columbia County
Building Permit Application

#21786

Date 2-19-04

CELL# 792-4061

Application No. 0402-5

Applicants Name & Address Larry K. Shaw Plumb-Level Const. Co. Home 386 Phone 758 68

Owners Name & Address S/A Larry K. Shaw American Ins. Agency Home 386 Phone 755 90

Fee Simple Owners Name & Address S/A Phone

Contractors Name & Address Plumb-Level Construction Co. (Kevin Bedenbaugh) Phone 386 792-40
P.O. 1416 Live Oak FL 32064

Legal Description of Property

Location of Property SEC. 36 - T38N - R16E
Driving Directions go East 1/2 mile Past 247 on Left American Insurance Agency

Tax Parcel Identification No. 36-35-16-02619-000 Estimated Cost of Construction \$ 175,000

Type of Development Commercial - Office Space Number of Existing Dwellings on Property 1 - To Be Re

Comprehensive Plan Map Category COMMERCIAL Zoning Map Category CI

Building Height 21' Number of Stories 1 Floor Area 4400 Total Acreage in Development 1.129

Distance From Property Lines (Set Backs) Front 70' Side 0 Rear 310' Street 70'

Flood Zone X Certification Date Development Permit N/A

Bonding Company Name & Address

Architect/Engineer Name & Address Nick Geister Trotter Way Lake City FL 32052

Mortgage Lenders Name & Address


Application is hereby made to obtain a permit to do the work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating construction in this jurisdiction.

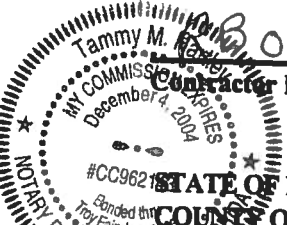
OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Kevin Bedenbaugh
Owner or Agent (Including contractor)

Kevin Bedenbaugh
Contractor

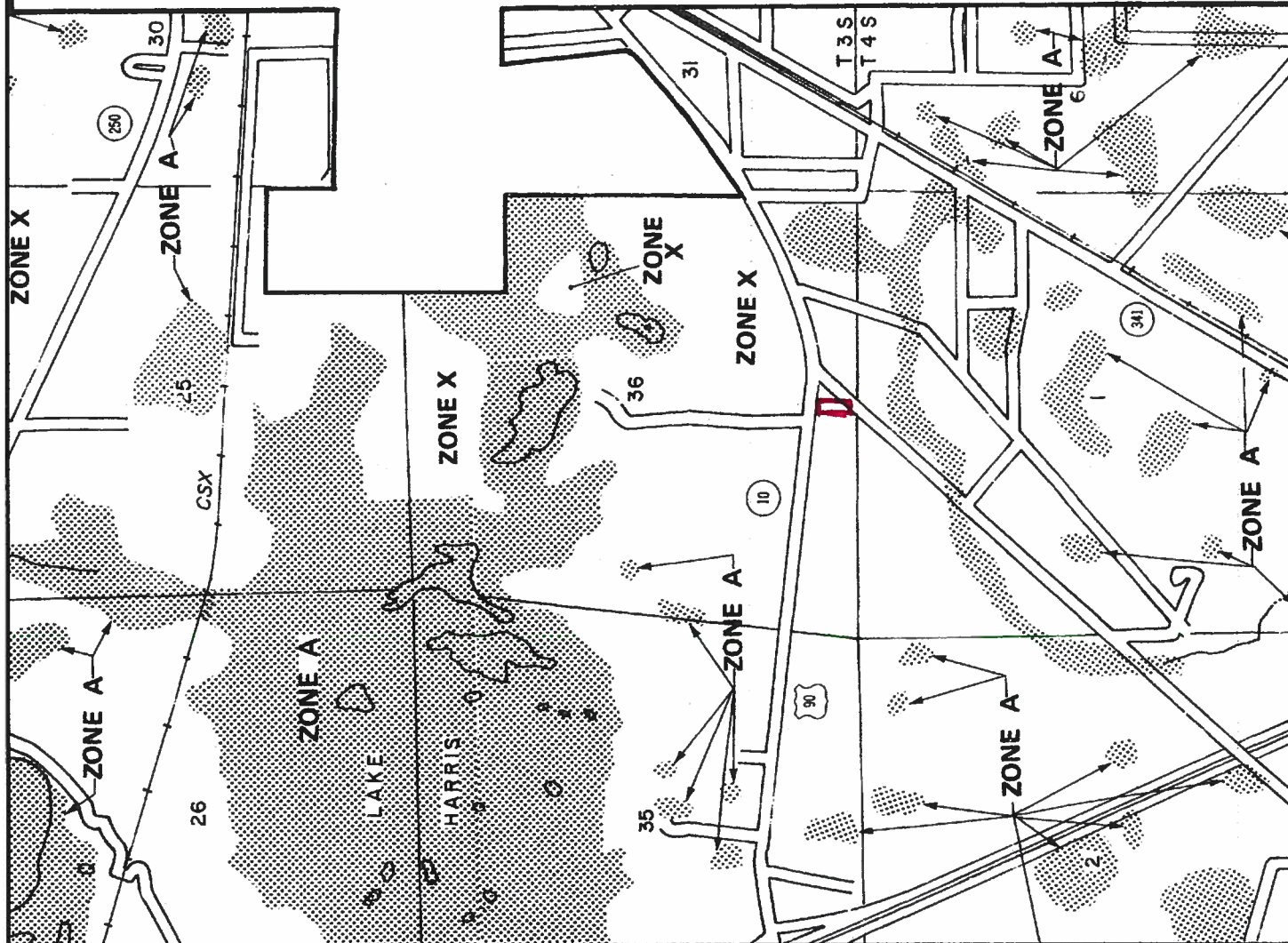

I, Larry K. Shaw, do hereby certify that I am the owner of the above described property and that the above information is true and correct.
Subscribed before me
this 19 day of Feb by Larry K. Shaw
Personally Known OR Produced Identification


I, Kevin Bedenbaugh, do hereby certify that I am the contractor for the above described project and that the above information is true and correct.
Subscribed before me
this 19 day of Feb by Kevin Bedenbaugh
Personally Known OR Produced Identification

B351-512-57-059-0

B351-512-57-059-1

0402-50



APPROXIMATE SCALE IN FEET
2000 0 2000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

COLUMBIA
COUNTY,
FLORIDA
(UNINCORPORATED AREAS)

PANEL 175 OF 290

PANEL LOCATION



COMMUNITY-PANEL NUMBER
120070 0175 B

EFFECTIVE DATE:
JANUARY 6, 1988



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT Version 1.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Further information about National Flood Insurance Program flood hazard maps is available at www.fema.gov/nifm.

Construction Plan

Keith Shaw – Office Building

Sec. 36 – T3S – R16E

Columbia County, Florida

Columbia County
JOB NUMBER: 08-2000

Index of Plans

Sheet No. Sheet Description

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- 2 Plan & Drainage Sheet

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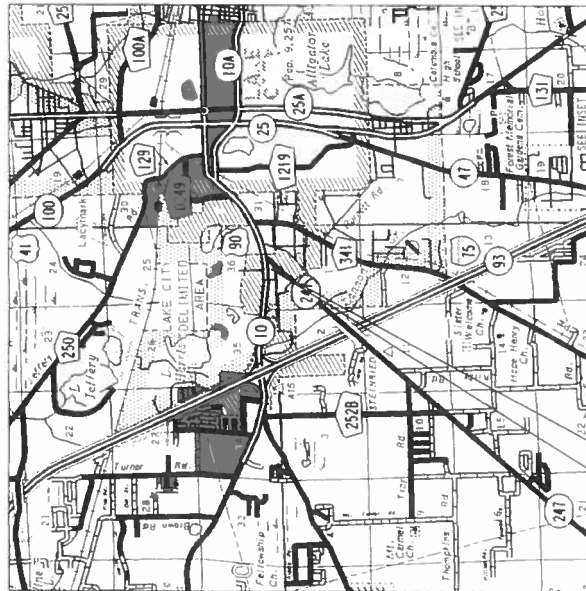
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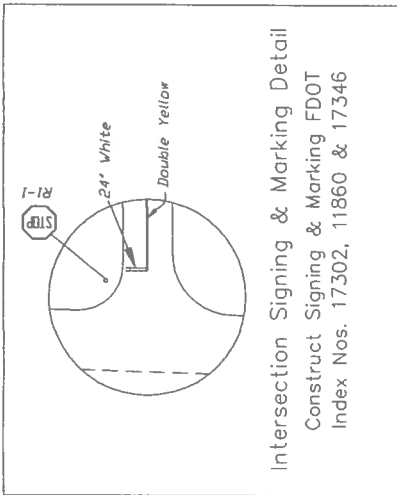
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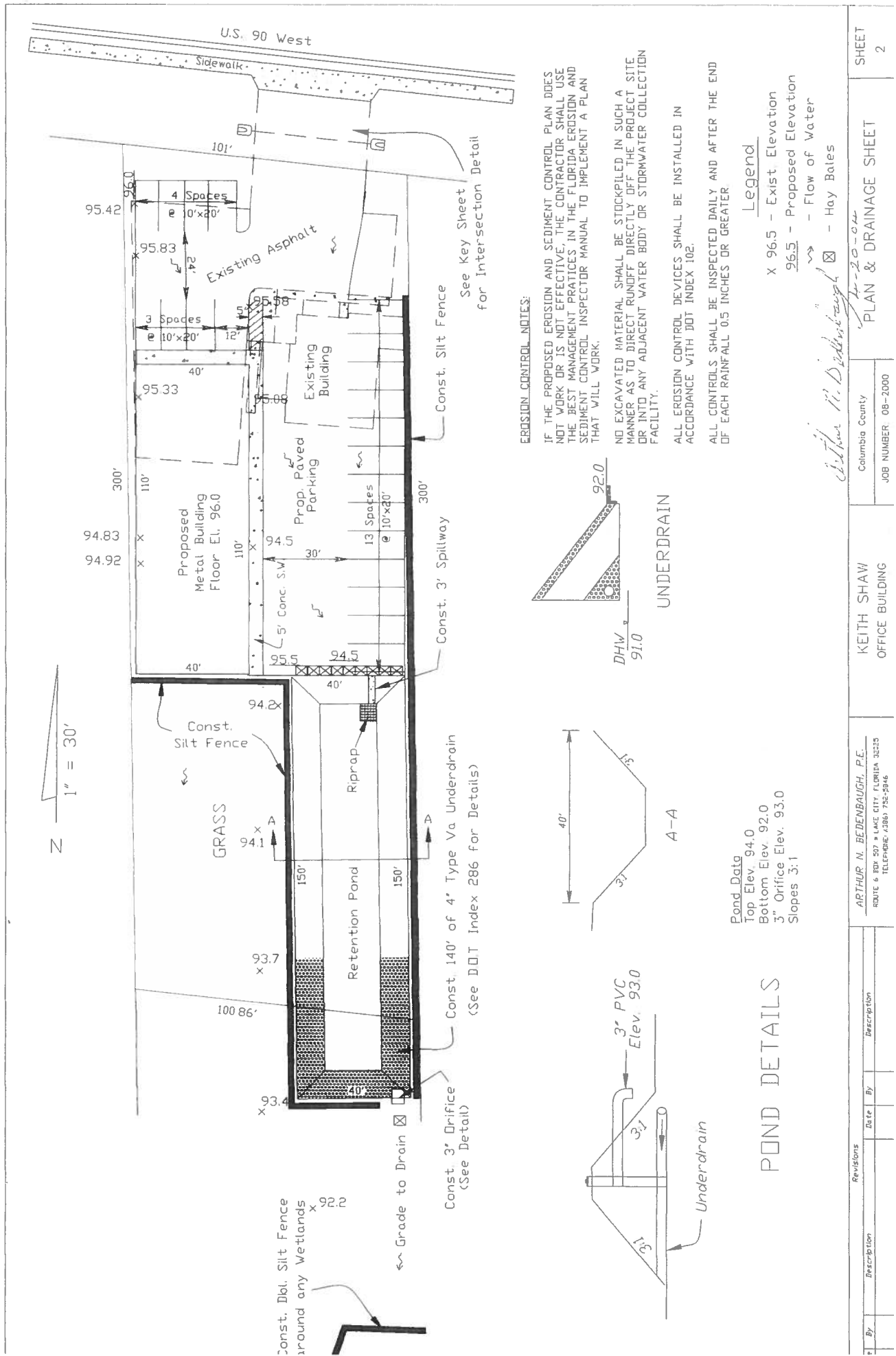
ENGINEER
ARTHUR N. BEDENBAUGH
ROUTE 6 BOX 507
LAKE CITY, FL 32025
386-752-5846

OWNER
KEITH SHAW
4220 W US HWY 90
LAKE CITY, FL 32025
386 755 9070

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED BY REPRODUCTION

Arthur N. Bedenbaugh

Engineer of Record: Arthur N. Bedenbaugh
P.E. No. 9162 4-20-04



EROSION CONTROL NOTES:

IF THE PROPOSED EROSION AND SEDIMENT CONTROL PLAN DOES NOT WORK OR IS NOT EFFECTIVE, THE CONTRACTOR SHALL USE THE BEST MANAGEMENT PRACTICES IN THE FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR MANUAL TO IMPLEMENT A PLAN THAT WILL WORK.

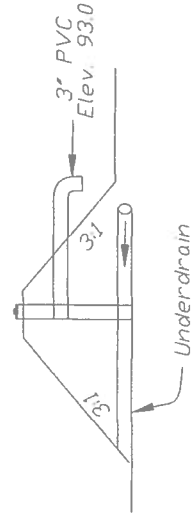
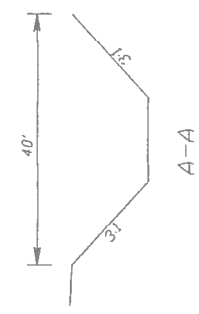
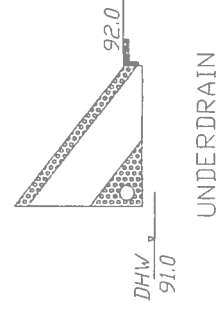
NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.

ALL EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH DOT INDEX 102.

ALL CONTROLS SHALL BE INSPECTED DAILY AND AFTER THE END OF EACH RAINFALL 0.5 INCHES OR GREATER.

Legend

- X 96.5 - Exist Elevation
- 96.5 - Proposed Elevation
- - Flow of Water
- ☒ - Hay Bales



POND DETAILS

Pond Data
 Top Elev. 94.0
 Bottom Elev. 92.0
 3" Orifice Elev. 93.0
 Slopes 3:1

Home
Property Search
Agriculture Classification
Amendment 10
Exemptions
Tangible Property Tax
Tax Rates
Report & Map Pricing
Important Dates
Office Directory
E-mail us Comments

Parcel ID: 36-3S-16-02619-000

Columbia County Property Appraiser

Owner & Property Info

Show: Tax Info GIS Map
Property Card

Owner's Name	SHAW LARRY KEITH	Use Desc. (code)	OFFICE BUI (001700)
Site Address	---	Neighborhood	36316.00
Mailing Address	P O BX 2759 LAKE CITY, FL 32056	Tax District	2
Brief Legal	BEG SE COR OF SW1/4, RUN W 50 FT, N 492.75 FT, E 50.75 FT, S 487.20 FT TO POB. ALSO LOTS 6,	UD Codes	
		Market Area	01
		Total Land Area	1.129 ACRES

Property & Assessment Values

Mkt Land Value	cnt: (2)	\$261,334.00	Just Value	\$285,567.00
Ag Land Value	cnt: (0)	\$0.00	Class Value	\$0.00
Building Value	cnt: (1)	\$23,433.00	Assessed Value	\$285,567.00
XFOB Value	cnt: (2)	\$800.00	Exempt Value	\$0.00
Total Appraised Value		\$285,567.00	Total Taxable Value	\$285,567.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vimp	Sale Qual	Sale RCode	Sale Price
2/9/2001	920/1538	WD	I	U		\$100.00
8/5/1992	861/170	AD	I	U		\$190,909.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	OFFICE LOW (004900)	1935	WD or PLY (08)	1356	1556	\$23,433.00
Note: All S.F. calculations are based on exterior building dimensions.						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0166	CONC,PAVMT	1993	\$300.00	1.000	0 x 0 x 0	(.00)
0260	PAVEMENT-A	1993	\$500.00	1.000	0 x 0 x 0	(.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
001700	1STORY OFF (MKT)	37500.000 SF - (.860AC)	1.00/1.00/1.00/1.00	\$6.50	\$243,750.00
001700	1STORY OFF (MKT)	11723.000 SF - (.269AC)	1.00/1.00/1.00/1.00	\$1.50	\$17,584.00

Columbia County Property Appraiser

DB Last Updated: 01/12/2004

<< Prev

27 of 41

Next >>

FAX**MEMORANDUM****MEMORANDUM****FLORIDA DEPARTMENT OF TRANSPORTATION**

To: Mr. John Kerce, Dept. Director
Columbia Co. Building & Zoning Dept.
Fax No: 904-758-2160

From: Neil E. Miles, FDOT Permits Coord.
Date: 2-25-04 **Fax No.** 904-961-7180
Attention: In-House Staff

☐ Sign and return. ☐ For your files. ☐ Please call me. ☒ FYI ☐ For Review

REF: Notice of Driveway Access Review / Inspected On: 4-07-04

PROJECT: Larry Keith Shaw-Existing: American Insurance/ **PROPOSED:** Comm. Access

TAX PARCEL No. Unknown / **CONTRACTOR:** Kevin Bedenbaugh Sr.

Contractor's Phone No. 365-5264 / **Engineer:** Nelson Bedenbaugh

Mr. Kerce:

The above referenced property is planning new improvements to its location on EB, State Highway SR-10, (US 90.) The site was reviewed for possible access driveway improvements per the proposed site plan given to us by the contractor Mr. Bedenbaugh. The plan did not show a planned site overlay of the old pavement area. Once we inquired it was found that the old pavement was receiving all new asphalt overlay. We would therefore request the following access safety improvements.

The following driveway access improvements are to the existing connection. They are as follows:

1. The existing urban flared concrete connection may remain in place as it currently is constructed.
2. The proposed new asphalt overlay is to have a single 24 inch wide pavement thermoplastic White Stop Bar.
3. A minimum of 20 LF of double 6 inch wide Access Lane Separation Thermoplastic Striping shall be required.
4. A single 30 inch dia. Aboveground FDOT R1-1 Stop Sign constructed per FDOT Indexes 11860 and 17302.

Our office would request that all county building permits be temporarily withheld until the engineer has had a chance to submit an additional plan sheet showing these improvements. We would request that this additional access site improvement is required as a part of the land owners overall plan improvements, as they relate safety of access at this improvement. Once we have confirmation of the improvements either to this office or from the Col. Co. Building Office all will be good to go for our end. If further information is required on this project please do not hesitate to contact this office for additional access permitting information details. My office number is 961-7193 or 961-7180.

Sincerely,

Neil E. Miles

Neil Miles

Access Permits Coordinator

PS - John - Spoke to N. Bedenbaugh last week about submitting the above improvements - Also to Kevin B. and also to K. Shadaker 11PM

Return to: (enclose self-addressed stamped envelope)

Name:

Address:

This Instrument Prepared by:

Name:

Address:

Property Appraisers Parcel Identification

Inst:2003021843 Date:10/07/2003 Time:11:02

Ymck DC, P. DeWitt Cason, Columbia County B:996 P:211

SPACE ABOVE THIS LINE FOR PROCESSING DATA

SPACE ABOVE THIS LINE FOR RECORDING DATA

NOTICE OF COMMENCEMENT

Permit No. _____

Tax Folio No. _____

State of Florida)
County of Columbia)

The undersigned hereby gives notice that improvements will be made to certain real property, and in accordance with chapter 713 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

Legal description of property (include Street Address, if available) beg SE COR OF SW 1/4, Run
W 50 FT, N 492.75 FT, E 50.75 FT, S 487.20 FT TO
P.O.B. Also lots 6 & 7 BLOCK F

General description of improvements New Construction / Commercial

Owner's Name Larry Keith Shaw

Address PO BOX 2759 Oak City FL 32056 384 755 9070

Owner's Interest in site of the improvement 100%

Fee Simple Title holder (if other than owner) _____

Address _____ Phone: _____ Fax: _____

Contractor Plumb-Level Construction Co.

Address P.O. Box 1416 Oak Fl 32064 Phone: (386) 938-5588 Fax: _____

Surety N/A Phone: _____ Fax: _____

Address _____ Amount of bond \$ N/A

Lender's Name N/A

Address: _____ Phone: _____ Fax: _____

Persons within the State of Florida designated by owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7, Florida Statutes.

Name Kevin Badenbaugh

Address P.O. 1416 Oak Fl 32064 Phone: (386) 792-4061 Fax: _____

In addition to himself, owner designates _____

Of _____ Phone: _____ Fax: _____

to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

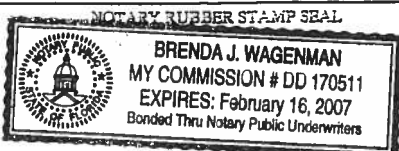
Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified)

[Signature]

Signature of Owner

Larry K Shaw

Printed Name of Owner



I have relied upon the following identification of the Affiant _____

Personally known Sworn to and subscribed before me this 7th day of Oct 2003

Brenda J. Wagenman

Notary Signature
Printed Name Brenda J. Wagenman

ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

EnergyGauge FlaCom v1.22 FORM 400A-2001

Whole Building Performance Method for Commercial Buildings

Jurisdiction: LAKE CITY, COLUMBIA COUNTY FL (221200)

Short Desc: Shaw

Project: New Retail Office Building

Owner: Keith Shaw

Address: -

Hwy 90 West

City: Lake City

State: FL

PermitNo: 0

Zip: 32055

Storeys: 1

Type: Retail (mercantile)

GrossArea: 4400

Class: New Shell building

Net Area: 4400

Max Tonnage: 2 (if different, write in)

Compliance Summary

Component	Design	Criteria	<u>Result</u>
Gross Energy Use	68.60	100.00	PASSES
Other Envelope Requirements - A			PASSES
LIGHTING CONTROLS			PASSES
EXTERNAL LIGHTING			PASSES
HVAC SYSTEM			PASSES
PLANT			PASSES
WATER HEATING SYSTEMS			PASSES
PIPING SYSTEMS			PASSES
Met all required compliance from Check List?			Yes/No/NA

IMPORTANT NOTE: An input report Print-Out from EnergyGauge FlaCom of this design building must be submitted along with this Compliance Report.

Project: Shaw
Title: New Retail Office Building
Type: Retail (mercantile)
Location: LAKE CITY, COLUMBIA COUNTY, FL (221200)
(WEA File: JACKSONVILL

Whole Building Compliance

	Design	Reference
Total	68.60	100.00
ELECTRICITY	68.60	100.00
AREA LIGHTS	29.86	53.57
PUMPS & MISC	0.14	0.14
SPACE COOL	16.03	23.71
VENT FANS	22.58	22.58

Credits & Penalties (if any): Modified Points: = 68.6

PASSES

Project: Shaw
Title: New Retail Office Building
Type: Retail (mercantile)
Location: LAKE CITY, COLUMBIA COUNTY, FL (221200)
(WEA File: JACKSONVILL

Other Envelope Requirements

Item	Zone	Description	Design	Limit	Meet Req.
Pr0Zo1Rf1	Pr0Zo1	Exterior Roof - Max Uo Limit	0.05	0.09	Yes
Pr0Zo2Rf1	Pr0Zo2	Exterior Roof - Max Uo Limit	0.05	0.09	Yes
Pr0Zo3Rf1	Pr0Zo3	Exterior Roof - Max Uo Limit	0.05	0.09	Yes
Pr0Zo4Rf1	Pr0Zo4	Exterior Roof - Max Uo Limit	0.05	0.09	Yes

Meets Other Envelope Requirements

Project: Shaw
Title: New Retail Office Building
Type: Retail (mercantile)
Location: LAKE CITY, COLUMBIA COUNTY, FL (221200)
(WEA File: JACKSONVILI.

External Lighting Compliance

Description	Category	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 1	Entrance (w/ Canopy) High traffic-retail, hotel, airport, theatre etc	10.00	360.0	3,600	1,000

Design: 1000 (W)

Allowance: 3600 (W)

PASSES

Project: Shaw
Title: New Retail Office Building
Type: Retail (mercantile)
Location: LAKE CITY, COLUMBIA COUNTY, FL (221200)
(WEA File: JACKSONVILI.

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	No. of Tasks	Design CP	Min CP	Compli- ance
Pr0Zo1Spl	100	Retail Establishments (Merchandising & Circulation Area) Applicable to all lighting, including accen	880	1	3	2	PASSES
Pr0Zo2Spl	100	Retail Establishments (Merchandising & Circulation Area) Applicable to all lighting, including accen	880	1	3	2	PASSES
Pr0Zo3Spl	100	Retail Establishments (Merchandising & Circulation Area) Applicable to all lighting, including accen	880	1	6	4	PASSES
Pr0Zo4Spl	28	Offices (Partitions>4.5 ft below ceiling) Enclosed offices, all open plan offices without partitions	880	1	3	2	PASSES

PASSES

Project: Shaw
Title: New Retail Office Building
Type: Retail (mercantile)
Location: LAKE CITY, COLUMBIA COUNTY, FL (221200)
(WEA File: JACKSONVILL

System Report Compliance

Pr0Sy1 **System 1** **Constant Volume Air Cooled** **No. of Units**
 Split System < 65000 Btu/hr **3**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Cooled < 65000 Btu/h		11.65	10.00	8.00		PASSES
	Cooling Capacity						
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.80			PASSES

Pr0Sy2 **System 2** **Constant Volume Air Cooled** **No. of Units**
 Split System < 65000 Btu/hr **1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Cooled < 65000 Btu/h		11.60	10.00	8.00		PASSES
	Cooling Capacity						
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.80			PASSES

PASSES

Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Compliance
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None

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
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None

Piping System Compliance							
Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance
							None

Project: Shaw
Title: New Retail Office Building
Type: Retail (mercantile)
Location: LAKE CITY, CO

Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Infiltration	406.1	Infiltration Criteria have been met	<input type="checkbox"/>
System	407.1	HVAC Load sizing has been performed	<input type="checkbox"/>
Ventilation	409.1	Ventilation criteria have been met	<input type="checkbox"/>
ADS	410.1	Duct sizing and Design have been performed	<input type="checkbox"/>
T & B	410.1	Testing and Balancing will be performed	<input type="checkbox"/>
Electrical	413.1	Metering criteria have been met	<input type="checkbox"/>
Motors	414.1	Motor efficiency criteria have been met	<input type="checkbox"/>
Lighting	415.1	Lighting criteria have been met	<input type="checkbox"/>
O & M	102.1	Operation/maintenance manual will be provided to owner	<input type="checkbox"/>
Roof/Ceil	404.1	R-19 for Roof Deck with supply plenums beneath it	<input type="checkbox"/>
Report	101	Input Report Print-Out from EnergyGauge FlaCom attached?	<input type="checkbox"/>

ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

EnergyGauge FlaCom v1.22

INPUT DATA REPORT

Project Information

Project Name: Shaw

Orientation: North

Project Title: New Retail Office Building

Building Type: Retail (mercantile)

Address: Hwy 90 West

Building Classification New Shell building

State: FL

No.of Storeys: 1

Zip: 32055

GrossArea: 4400

Owner: Keith Shaw

Zones

No	Acronym	Description	Type	Load Profile	Area [sf]	Multiplier	Total Area [sf]
1	Pr0Zo1	Zone 1	CONDITIONED	Uses Building Load Profile	880.0	1	880.0
2	Pr0Zo2	Zone 2	CONDITIONED	Uses Building Load Profile	880.0	1	880.0
3	Pr0Zo3	Zone 3	CONDITIONED	Uses Building Load Profile	1760.0	1	1760.0
4	Pr0Zo4	Zone 4	CONDITIONED	Uses Building Load Profile	880.0	1	880.0

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area [sf]	Total Volume [cf]	
In Zone: Pr0Zo1										
1	Pr0Zo1Sp1	Zo0Sp1	Retail Establishments (Merchandising & Circulation Area) Applicable to all lighting, including accen	44.00	20.00	9.00	1	880.0	7920.0	<input type="checkbox"/>
In Zone: Pr0Zo2										
1	Pr0Zo2Sp1	Zo0Sp1	Retail Establishments (Merchandising & Circulation Area) Applicable to all lighting, including accen	44.00	20.00	9.00	1	880.0	7920.0	<input type="checkbox"/>
In Zone: Pr0Zo3										
1	Pr0Zo3Sp1	Zo0Sp1	Retail Establishments (Merchandising & Circulation Area) Applicable to all lighting, including accen	44.00	20.00	9.00	2	1760.0	15840.0	<input type="checkbox"/>
In Zone: Pr0Zo4										
1	Pr0Zo4Sp1	Zo0Sp1	Offices (Partitions>4.5 ft below ceiling) Enclosed offices, all open plan offices without partitions	44.00	20.00	9.00	1	880.0	7920.0	<input type="checkbox"/>

Lighting

No	Type	Power [W]	Control Type	No.of Ctrl pts
In Zone: Pr0Zo1				
In Space: Pr0Zo1Sp1				
1	Recessed Fluorescent - No vent	1600.00	Manual On/Off	2 <input type="checkbox"/>

In Zone: Pr0Zo2 In Space: Pr0Zo2Spl	2	Incandescent	60.00	Manual On/Off	1	<input type="checkbox"/>
	1	Recessed Fluorescent - No vent	800.00	Manual On/Off	2	<input type="checkbox"/>
In Zone: Pr0Zo3 In Space: Pr0Zo3Spl	2	Incandescent	60.00	Manual On/Off	1	<input type="checkbox"/>
	1	Recessed Fluorescent - No vent	1600.00	Manual On/Off	2	<input type="checkbox"/>
In Zone: Pr0Zo4 In Space: Pr0Zo4Spl	2	Incandescent	60.00	Manual On/Off	1	<input type="checkbox"/>
	1	Recessed Fluorescent - No vent	1600.00	Manual On/Off	2	<input type="checkbox"/>
	2	Incandescent	60.00	Manual On/Off	1	<input type="checkbox"/>

Walls

No	Description	Type	Width [ft]	H (Effect) [ft]	Multi plier	Area [sf]	Direction	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: Pr0Zo1												
1	Pr0Zo1Wal	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	44.00	9.00	1	396.0	West	0.2067	5.7314	34.65	4.84	<input type="checkbox"/>
2	Pr0Zo1Wa2	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	20.00	9.00	1	180.0	North	0.2067	5.7314	34.65	4.84	<input type="checkbox"/>
In Zone: Pr0Zo2												
1	Pr0Zo2Wal	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	20.00	9.00	1	180.0	North	0.2067	5.7314	34.65	4.84	<input type="checkbox"/>
2	Pr0Zo2Wa2	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	44.00	9.00	1	396.0	East	0.2067	5.7314	34.65	4.84	<input type="checkbox"/>

In Zone: Pr0Zo3												
1	Pr0Zo3Wa1	5/8" stucco /8"CMU 3/4"ISO BTWN24"oc/.5" Gyp	20.00	9.00	2	180.0	East	0.2067	5.7314	34.65	4.84	<input type="checkbox"/>
2	Pr0Zo3Wa3	5/8" stucco /8"CMU 3/4"ISO BTWN24"oc/.5" Gyp	20.00	9.00	2	180.0	West	0.2067	5.7314	34.65	4.84	<input type="checkbox"/>
In Zone: Pr0Zo4												
1	Pr0Zo4Wa1	5/8" stucco /8"CMU 3/4"ISO BTWN24"oc/.5" Gyp	20.00	9.00	1	180.0	East	0.2067	5.7314	34.65	4.84	<input type="checkbox"/>
2	Pr0Zo4Wa2	5/8" stucco /8"CMU 3/4"ISO BTWN24"oc/.5" Gyp	44.00	9.00	1	396.0	North	0.2067	5.7314	34.65	4.84	<input type="checkbox"/>
3	Pr0Zo4Wa3	5/8" stucco /8"CMU 3/4"ISO BTWN24"oc/.5" Gyp	20.00	9.00	1	180.0	West	0.2067	5.7314	34.65	4.84	<input type="checkbox"/>

Windows

No	Description	Type	Shaded	UCen [Btu/hr sf F]	SC	Vis.Tr	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]	
In Zone: Pr0Zo1											
In Wall Pr0Zo1Wa2											
1	Pr0Zo1Wa2Wi1	SINGLE CLEAR	Yes	1.0018	0.95	0.88	16.00	8.00	1	128.0	<input type="checkbox"/>
In Zone: Pr0Zo2											
In Wall Pr0Zo2Wa1											
1	Pr0Zo2Wa1Wi1	SINGLE CLEAR	Yes	1.0018	0.95	0.88	16.00	8.00	1	128.0	<input type="checkbox"/>
In Wall Pr0Zo2Wa2											
1	Pr0Zo2Wa2Wi1	SINGLE CLEAR	No	1.0018	0.95	0.88	16.00	8.00	1	128.0	<input type="checkbox"/>
In Zone: Pr0Zo3											
In Wall Pr0Zo3Wa1											
1	Pr0Zo3Wa1Wi1	SINGLE CLEAR	Yes	1.0018	0.95	0.88	16.00	8.00	1	128.0	<input type="checkbox"/>

In Zone: Pr0Zo4									
In Wall	Pr0Zo4Wa1								
1	Pr0Zo4Wa1Wi1	SINGLE CLEAR	Yes	1.0018	0.95	0.88	16.00	8.00	128.0
									<input type="checkbox"/>
In Wall	Pr0Zo4Wa2								
1	Pr0Zo4Wa2Wi1	SINGLE CLEAR	No	1.0018	0.95	0.88	9.00	8.00	144.0
									<input type="checkbox"/>

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.s.f.F/Btu]
In Zone: Pr0Zo1											
In Wall:	Pr0Zo1Wa1										
1	Pr0Zo1Wa1Dr1	Solid Urethane foam core	No	3.00	6.67	1	20.0	0.6061	0.00	0.00	1.65
											<input type="checkbox"/>
In Zone: Pr0Zo3											
In Wall:	Pr0Zo3Wa3										
1	Pr0Zo3Wa3Dr1	Solid Urethane foam core	No	3.00	6.67	2	20.0	0.6061	0.00	0.00	1.65
											<input type="checkbox"/>
In Zone: Pr0Zo4											
In Wall:	Pr0Zo4Wa3										
1	Pr0Zo4Wa3Dr1	Solid Urethane foam core	No	3.00	6.67	1	20.0	0.6061	0.00	0.00	1.65
											<input type="checkbox"/>

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.s.f.F/Btu]
In Zone: Pr0Zo1											
1	Pr0Zo1Rf1	Shngl/1/2"WD Deck/WD Truss/6"Batt/Gyp Brd	20.00	44.00	1	880.0	11.50	0.0471	1.40	10.89	21.24
											<input type="checkbox"/>
In Zone: Pr0Zo2											
1	Pr0Zo2Rf1	Shngl/1/2"WD Deck/WD Truss/6"Batt/Gyp Brd	20.00	44.00	1	880.0	11.50	0.0471	1.40	10.89	21.24
											<input type="checkbox"/>
In Zone: Pr0Zo3											

1	Pr0Zo3Rf1	Shngl/1/2"WD Deck/WD	20.00	44.00	2	880.0	11.50	0.0471	1.40	10.89	21.24	<input type="checkbox"/>
In Zone: Pr0Zo4												
1	Pr0Zo4Rf1	Truss/6"Batt/Gyp Brd	20.00	44.00	1	880.0	11.50	0.0471	1.40	10.89	21.24	<input type="checkbox"/>
In Zone: Pr0Zo4												
1	Pr0Zo4Rf1	Shngl/1/2"WD Deck/WD	20.00	44.00	1	880.0	11.50	0.0471	1.40	10.89	21.24	<input type="checkbox"/>
In Zone: Pr0Zo4												
1	Pr0Zo4Rf1	Truss/6"Batt/Gyp Brd	20.00	44.00	1	880.0	11.50	0.0471	1.40	10.89	21.24	<input type="checkbox"/>

Skylights

No	Description	Type	UCen [Btu/hr sf F]	Shading Coeff	Vis. Tran	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]
In Zone:										
In Roof:										
<input type="checkbox"/>										

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. Dens. [lb/cf]	R-Value [h.s.f.F/Btu]
In Zone: Pr0Zo1									
1	Pr0Zo1F11	Concrete floor, carpet and rubber pad	20.00	44.00	1	880.0	0.5987	9.33	140.00
In Zone: Pr0Zo2									
1	Pr0Zo2F11	Concrete floor, carpet and rubber pad	20.00	44.00	1	880.0	0.5987	9.33	140.00
In Zone: Pr0Zo3									
1	Pr0Zo3F11	Concrete floor, carpet and rubber pad	20.00	44.00	2	880.0	0.5987	9.33	140.00
In Zone: Pr0Zo4									
1	Pr0Zo4F11	Concrete floor, carpet and rubber pad	20.00	44.00	1	880.0	0.5987	9.33	140.00
In Zone: Pr0Zo4									
1	Pr0Zo4F11	Concrete floor, carpet and rubber pad	20.00	44.00	1	880.0	0.5987	9.33	140.00

Systems						
Pr0Sy1		System 1		Constant Volume Air Cooled Split System < 65000 Btu/hr		No. Of Units 3
Component	Category	Capacity	Efficiency	IPLV		
1	Cooling System (Air Cooled < 65000 Btu/h Cooling Capacity)	18500.00	11.65	8.00	<input type="checkbox"/>	
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)	650.00	0.80		<input type="checkbox"/>	
Pr0Sy2		System 2		Constant Volume Air Cooled Split System < 65000 Btu/hr		No. Of Units 1
Component	Category	Capacity	Efficiency	IPLV		
1	Cooling System (Air Cooled < 65000 Btu/h Cooling Capacity)	24800.00	11.60	8.00	<input type="checkbox"/>	
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)	800.00	0.80		<input type="checkbox"/>	

Plant			
Equipment	Category	Size	Inst.No Eff. IPLV
			<input type="checkbox"/>

Water Heaters			
W-Heater Description	Capacit Cap.Unit	I/P Rt.	Efficienc Loss
			<input type="checkbox"/>

Ext-Lighting			
Description	Categories.	Area/Len/No. of units [sf/ft/No]	Wattage [W]

1	Ext Light 1	Entrance (w/ Canop.) High traffic-retail, hotel, airport, theatre etc	360.00	1000.00	<input type="checkbox"/>
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Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nominal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?
						<input type="checkbox"/>

Fenestration Used

Name	Glass Type	No. of Panels	Glass Conductance [Btu/h.sf.F]	SC	VLT	Frame Conductance [Btu/h.sf.F]	Frame Absorptance
ApLbWnd1	SINGLE CLEAR	1	1.0018	0.9500	0.8810	0.4340	0.7000

Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHea t
18	Mat118	2 in. Wood	No	2.3857	0.1670	0.0700	37.00	0.3900
264	Mat1264	ALUMINUM, 1/16 IN	No	0.0002	0.0050	26.0000	480.00	0.1000
214	Mat1214	POLYSTYRENE, EXP., 1-1/4IN,	No	5.2100	0.1042	0.0200	1.80	0.2900
187	Mat1187	GYP OR PLAS BOARD, 1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000
206	Mat1206	CELLULOSE, FILL, 5.5IN, R- 20	No	20.8318	0.4583	0.0220	3.00	0.3300
151	Mat1151	CONC HW, DRD, 140LB, 4IN	No	0.4403	0.3333	0.7570	140.00	0.2000
178	Mat1178	CARPET W/RUBBER PAD	Yes	1.2300				

265	Matl265	Soil. 1 ft	No	2.1000	1.0000	0.5000	100.00	0.2000	
48	Matl48	6 in. Heavy weight concrete	No	0.5000	0.5000	1.0000	140.00	0.2000	
223	Matl223	CONCRETE BLOCK	No	1.2227	0.6667	0.3870	53.00	0.2000	
159	Matl159	N.W. 3 IN. HOLLOW	No	0.3200	0.3333	1.0410	140.00	0.2000	
57	Matl57	HW-UNIDIRECTIONAL 4 IN	No	0.1488	0.0625	0.4200	100.00	0.2000	
72	Matl72	3-4 in. Plaster or gypsum	Yes	0.5000					
267	Matl267	AIR LAYER 3/4 IN OR	No	0.1563	0.0625	0.4000	16.00	0.2000	
266	Matl266	LESS, VERT. WALLS	No	8.3343	0.2977	0.0350	9.70	0.2000	
215	Matl215	0.75" stucco	No	8.3350	0.1667	0.1200	1.80	0.2900	
105	Matl105	2x4 @ 16" oc - R11 Batt	No	1.1000	0.6667	0.4060	69.00	0.2000	
256	Matl256	POLYSTYRENE, EXP., 1/2 IN.	No	1.8935	0.1250	0.0660	32.00	0.3300	
268	Matl268	WOOD, SOFT, 1-1/2 IN	No	0.1300	0.0521	0.4000	16.00	0.2000	
42	Matl42	0.625" stucco	No	2.0212	0.6670	0.3300	38.00	0.2000	
269	Matl269	8 in. Lightweight concrete block	No	2.2321	0.0625	0.0280	4.19	0.3000	
86	Matl86	.75" ISO BTWN 24" oc	No	0.5012	0.3333	0.4160	120.00	0.2000	
211	Matl211	BRICK, COMMON, 4 IN	No	2.0850	0.0477	0.0200	1.80	0.2900	
12	Matl12	POLYSTYRENE, EXP., 1/2 IN.	No	10.0000	0.2500	0.0250	2.00	0.2000	
218	Matl218	3 in. Insulation	No	3.0077	0.0477	0.0130	1.50	0.3800	
23	Matl23	POLYURETHANE, EXP., 1/2 IN.	No	20.0000	0.5000	0.0250	5.70	0.2000	
4	Matl4	6 in. Insulation	No	0.0002	0.0050	26.0000	480.00	0.1000	
271	Matl271	Steel siding	No	10.4179	0.2917	0.0280	7.11	0.2000	
272	Matl272	2x4 @ 24" oc + R11 Batt	Yes	0.5044					
273	Matl273	Panel with 7/16" panels	Yes	1.2777					
274	Matl274	Hollow core flush (1.375")	Yes	1.7141					
275	Matl275	Solid core flush (1.375")	Yes	1.0019					
276	Matl276	Panel with 7/16" panels (1.375")	Yes	1.3239					
277	Matl277	Hollow core flush (1.75")	Yes	1.7141					
278	Matl278	Panel with 1-1/8" panels (1.75")	Yes	1.6500					
		Solid core flush (1.75")	Yes						

279	Matl279	Solid core flush (2.25")	Yes	2.8537				
280	Matl280	Fiberglass/Mineral wool core	Yes	0.8167				
281	Matl281	Paper Honeycomb core	Yes	0.9357				
282	Matl282	Solid Urethane foam core	Yes	1.6500				
283	Matl283	Solid mineral fiberboard core	Yes	1.7816				
284	Matl284	Polystyrene core (18 ga steel)	Yes	2.0071				
285	Matl285	Polyurethane core (18 ga steel) 2	Yes	2.5983				
286	Matl286	Polyurethane core (24 ga steel) 1	Yes	2.5983				
287	Matl287	Polyurethane core (24 ga steel) 2	Yes	4.1500				
288	Matl288	Solid Urethane foam core	Yes	4.1500				
81	Matl81	ASPHALT-ROOFING, ROLL	Yes	0.1500				
244	Matl244	PLYWOOD, 1/2IN	No	0.6318	0.0417	0.0660	34.00	0.2900
185	Matl185	CLAY TILE, PAVER, 3/8IN	No	0.0301	0.0313	1.0410	120.00	0.2000
82	Matl82	ASPHALT-SHINGLE AND SIDING	Yes	0.4400				
11	Matl11	2 in. Insulation	No	6.6800	0.1670	0.0250	2.00	0.2000
47	Matl47	2 in. Heavyweight concrete	No	0.1670	0.1670	1.0000	140.00	0.2000
95	Matl95	CONC BLOCK	No	0.7107	0.3333	0.4690	101.00	0.2000
248	Matl248	HW-4IN-HOLLOW ROOF GRAVEL OR SLAG 1/2IN	No	0.0500	0.0417	0.8340	55.00	0.4000
94	Matl94	BUILT-UP ROOFING, 3/8IN	No	0.3366	0.0313	0.0930	70.00	0.3500

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.s.f.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.s.f.F/Btu]
1004	Concrete floor, carpet and rubber pad	No	No	0.60	9.33	140.00	1.6703
Layer	Material No.	Material	Thickness [ft]	Framing Factor			
1	151	CONC HW, DRD, 140LB, 4IN	0.3333	0.00			
2	178	CARPET W/RUBBER PAD		0.00			
No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.s.f.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.s.f.F/Btu]
1011	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	No	No	0.21	5.73	34.65	4.8368
Layer	Material No.	Material	Thickness [ft]	Framing Factor			
1	268	0.625" stucco	0.0521	0.00			
2	42	8 in. Lightweight concrete block	0.6670	0.00			
3	269	.75" ISO BTWN24" oc	0.0625	0.00			
4	187	GYP OR PLAS BOARD, 1/2IN	0.0417	0.00			
No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.s.f.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.s.f.F/Btu]
1031	Solid Urethane foam core	No	Yes	0.61			1.6500
Layer	Material No.	Material	Thickness [ft]	Framing Factor			
1	282	Solid Urethane foam core		0.00			

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.s.f.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.s.f./Btu]	
1039	Shngl/1/2"WD Deck/WD Truss/6"Batt/Gyp Brd	No	No	0.05	1.40	10.89	21.2351	<input type="checkbox"/>
Layer	Material No.	Material	Thickness [ft]	Framing Factor				
1	81	ASPHALT-ROOFING, ROLL		0.00				<input type="checkbox"/>
2	244	PLYWOOD, 1/2IN	0.0417	0.00				<input type="checkbox"/>
3	23	6 in. Insulation	0.5000	0.00				<input type="checkbox"/>
4	187	GYP OR PLAS BOARD, 1/2IN	0.0417	0.00				<input type="checkbox"/>

COMPLIANCE CERTIFICATION:

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Efficiency Code.

PREPARED BY: Nicholas Geisler

DATE: 09 Feb 2004

I hereby certify that this building is in compliance with the Florida Energy Efficiency Code.

OWNER AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed, this building will be inspected for compliance in accordance with Section 553.908, F.S.

BUILDING OFFICIAL: _____

DATE: _____

If required by Florida law, I hereby certify (*) that the system design is in compliance with the Florida Energy Code.

REGISTRATION

No. _____

ARCHITECT :

Nicholas Geisler

AR0007005

ELECTRICAL SYSTEM DESIGNER

Nicholas Geisler

AR0007005

LIGHTING SYSTEM DESIGNER:

Nicholas Geisler

AR0007005

MECHANICAL SYSTEM DESIGNER:

Nicholas Geisler

AR0007005

PLUMBING SYSTEM DESIGNER:

Nicholas Geisler

AR0007005

(*) Signature is required where Florida Law requires design to be performed by registered design professionals.

Typed names and registration numbers may be used where all relevant information is contained on signed/sealed plans.