AT A SPECIAL MEETING OF THE DEVELOPMENT REVIEW COMMITTEE OF THE COUNTY OF JAMES CITY, VIRGINIA, HELD IN THE BUILDING C BOARD ROOM AT 6:30 P.M. ON THE 1st DAY OF JULY, TWO THOUSAND TWO.

1. ROLL CALL

Mr. John Hagee

Mr. Joe Poole

Ms. Peggy Wildman

ALSO PRESENT

Ms. Jill Schmidle, Senior Planner

Mr. Marvin Sowers, Planning Director

2. <u>Case No. SP-76-02. Powhatan Secondary Future Church Parcel.</u>

Mr. Hagee summarized conversations he had earlier in the day with Mr. Sowers and Ms. Schmidle regarding the review of a church plan on this property, and summarized last Wednesday's meeting for Ms. Wildman. Mr. Hagee stated that since a site plan for a church has not been submitted, it is not under the DRC's purview to determine the consistency of a church with the Powhatan Secondary Master Plan. Mr. Sowers and Ms. Schmidle explained that the issue before the DRC is whether a temporary parking area and a multi-purpose playing field are consistent with the Single-Family designation on the Master Plan. Ms. Schmidle reiterated staff's position that the two uses are not consistent with the Master Plan and that staff's concern is the precedent for clearing a site in order to accommodate both a temporary use and a future use without a site plan. Ms. Wildman asked for clarification on Section 24-279 of the zoning ordinance which specifies the DRC can approve uses which the DRC finds does not vary the basic concept or character of the development. Mr. Beamer provided a letter of intent from a church who plans to build on the site. Mr. Hagee expressed his position that the parking area and multi-purpose fields are consistent with the Master Plan. Mr. Poole concurred, and requested additional information be included on the site plan guaranteeing that the parking lot would contain wood chips or mulch instead of gravel, that the use of the temporary parking area be restricted to the dates of the Parade of Homes, and that the two uses (temporary parking area and multi-purpose fields) be clearly placed on the site plan. Any references to the church (including the site plan title) shall be removed. Ms. Schmidle and Mr. Romeo agreed that these notes would be on the plans prior to final site plan approval. The DRC unanimously agreed to find the temporary parking area and the multi-purpose fields consistent with the Master Plan, contingent on the addition of Mr. Poole's requested notes to the site plan.

3. Adjournment

There being no further business, the July 1, 2002, Development Review Committee meeting adjourned at approximately 7:05 p.m.

the Haz

John Hagee, Chairman

O. Marvin Sowers, Jr., Secretary

Conceptual Plan 87-02

1 Drammen Ct. Septic System Waiver Request

Staff Report for the July 31, 2002, Development Review Committee Meeting

SUMMARY FACTS

Applicant:

Dave Johnson

Land Owner:

Dave Johnson

Proposed Use:

Single-family home

Location:

1 Drammen Court

Tax Map/Parcel No.:

(23-4)(3-190)

Primary Service Area:

Inside

Parcel Size:

0.522 acres

Existing Zoning:

R-2, General Residential

Comprehensive Plan:

Low Density Residential

Staff Contact:

David Anderson

Phone: 253-6685

BRIEF HISTORY OF THE SITE

An unbuilt lot located in Kristiansand, for which public sewer is unavailable. Mr. Johnson recently purchased the approximately half acre site for the construction of a single-family home.

REASON FOR DRC REVIEW

Although this parcel is located inside the Primary Service Area, no public sewer is available; therefore, the Subdivision Ordinance requires the lots to be served with a conventional septic system (i.e., a hold tank and drainfield).

A standard septic system was not approved by the State health department for this site. The site was then evaluated by an Authorized On-Site Evaluator (i.e., a professional recognized by the Health Department as being qualified to determine septic tank acceptability) for an alternate "Puraflow" system. For the alternate "Puraflow" system, the permitted site was certified as being in compliance with the Board of Health's regulations and local ordinances.

Therefore, Mr. Johnson is requesting the use of the Puraflow septic system, which would allow him to provide individual sewer to the proposed single-family home.

The Subdivision Ordinance states that the Commission may grant an exception to any requirement of the chapter, but not unless first receiving a recommendation from the DRC and upon finding that:

- a.) strict adherence to the ordinance requirement will cause substantial injustice or hardship;
- b.) the granting of the exception will not be detrimental to public safety, health, or welfare, and will not adversely affect the property of others;
- c.) the facts upon which the request is based are unique to the property and are not applicable generally to other property so as not to make reasonably practicable the formulation of general regulations to be adopted as an amendment to the ordinance;
- d.) no objection to the exception has been receiving in writing from the transportation department, health department, or fire chief, and
- e.) the hardship or injustice is created by the unusual character of the property, including dimensions and topography, or by other extraordinary situation or condition of such property. Personal, financial, or self-inflicted hardship or injustice shall not be considered proper justification for an exception.

STAFF RECOMMENDATION

- a.) Staff believes strict adherence to the ordinance will cause substantial injustice or hardship by not allowing for sewage disposal to be provided for this lot;
- b.) The use of a Puraflow system would not be detrimental to the public safety, health, or welfare and will not adversely affect the property of others;
- c.) The facts upon which the request is based are unique to the property and are not applicable generally to other property;
- d.) No objection to the proposal has been submitted from the health department; and
- e.) The hardship or injustice is created by the unusual character of the property that being a standard septic system was not approved by the State health department for this property.

Since the request substantially meets the requirements listed above, staff recommends approval of the request.

David Anderson

attachments:

- 1. Location Map
- Approval letter dated June 26, 2002
- 3. Approved plans dates June 4, 2002
- 4. Request letter from Mr. Johnson, dated July 1, 2002

1 Drammen Ct. Septic System Waiver C-C7-02 NINA LANE 1 Drammen Court Kristiansand Drive 田田 Route 60 F 40"

James City County

Newport News

Poquoson

Williamsburg

York County



COMMONWEALTH of VIRGINIA Phone (757) 247-2170 710 Denbigh Boulevard, Suite 2-D

Department of Public Health Peninsula Health District

- 416 J. Clyde Morris Boulevard Newport News, Virginia 23601 Phone (757) 594-7300
- 1033 28th Street Newport News, Virginia 23607 Phone (757) 247-2170

710 Denbigh Boulevard, Suite 2-D Newport News, Virginia 23608 Phone (757) 886-2810

 1126 Professional Drive Williamsburg, Virginia 23185 Phone (757) 253-4813

June 26, 2002

Dave Johnson 8350 Richmond Road Toano, VA 23168

> RE: AOSE Permit Approval #1 Drammen Court Tax Map #:(23-4)(3-190)

Dear Sir or Madam,

This letter, in conjunction with the approved plans (26 pages) dated June 4, 2002, which are attached, constitutes your permit to install a sewage disposal system. The application for a permit was submitted pursuant to §32.1-163.5 of the *Code of Virginia* which requires the Health Department to accept private soil evaluations and designs from an Authorized Onsite Soil Evaluator (AOSE) or a Professional Engineer working in consultation with an AOSE for residential development. The permitted site was certified as being in compliance with the Board of Health's regulations and local ordinances by: Kornell R. Davis, AOSE # 109, Phone # (804)966-9190. This letter is issued in reliance upon that certification.

The Board of Health hereby recognizes that the soil and site conditions acknowledged by this correspondence, and documented by additional records on file at the local health department, are suitable for the installation of onsite sewage disposal systems. The attached plat shows the approved area for the sewage disposal system. This letter is void if there is any substantial physical change in the soil or site conditions where a sewage disposal system is to be located.

Page 2 #1 Drammen Court Tax Map #:(23-4)(3-190)

If modifications or revisions are necessary between now and when you construct your dwelling, please contact the Authorized Onsite Soil Evaluator (AOSE) or Professional Engineer (PE) who performed the evaluation and design on which this permit is based. The name, address, and phone number of the AOSE/PE appears on the certification form attached to this permit. Should revisions be necessary during construction, your contractor should consult with the AOSE/PE that submitted the site evaluation or site evaluation and design. The AOSE or PE is authorized to make minor adjustments in the location or design of the system or at the time of construction provided adequate documentation is provided to the Williamsburg Area Environmental Health Office.

This authorization is null and void if conditions are changed from those shown on the application or conditions are changed from those shown on the attached construction drawings, plans and specifications. No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved by the Williamsburg Area Environmental Health Office or unless expressly authorized by the Williamsburg Area Environmental Health Office. Any part of any installation which has been covered prior to approval shall be uncovered if necessary, upon the direction of the Department.

This authorization to construct a sewage disposal system and expires: December 26, 2003.

Sincerely,

Valerie Jordan, M.P.H.

Environmental Health Specialist, Senior Williamsburg Area Environmental Health Office

This Permit is **NOT** Transferrable

Water Supply and/or Sewage Disposal System Construction Permit

Commonwealth of Virginia	Health Department		
Department of Health	Identification Number		
'ames City County Health Department	Map Reference (23-4) (3-190)		
General I	nformation		
Water Supply System: New Repair About Sewage Disposal System: New XX Repair Exp	andon Public XX FHA/VA Case No		
Rased on the application for a sewage disposal system construct	ion permit filed in accordance with Section 2.13 E of the Sewage		
Handling and Disposal Regulations and/or Section 2.13 of the Pr	rivate Well Regulations a construction permit is hereby issued to:		
Owner Dave Johnson	Telephone (757) 592-3004		
	For a Type II Sewage Disposal System or Well to		
be constructed on/at #1 Drammen Court, Toano, VA 23168			
Subdivision Christiansand Section/Block 7 Lot 19			
DESIGN	NOTE:SEWAGE DISPOSAL SYSTEM INSPECTION RESULTS		
Water Supply, existing: (describe) Public	Water supply location: Satisfactory yes a no a		
	comments:		
To be installed: class:	Completion Report		
	G.W.2 Received: yes \(\Delta\) no \(\Delta\) not applicable \(\Omega\)		
Building Sewer:	Building Sewer: yes 🗆 no 🗅 comments Satisfactory		
Slope 1.25" per 10' (minimum).	Satisfactory		
properties per sections.			
Other			
Septic Tank: Capacity 1,000 gallons. (minimum)	Pretreatment unit: yes D no D comments		
Other 3" Inspection Port located at Inlet Side of Tank or Effluent	Satisfactory		
Filter w/Riser, or Reduced Maintenance Septic Tank w/ Baffle			
Inlet-outlet structure: PVC Schedule 40, 4" tees or equivalent.	Inlet-outlet structure: yes \(\text{per} \) no \(\text{comments} \) Satisfactory		
Other Zabel A-300 Effluent Filter			
mp and pump station:	Pump and pump station: yes one comments		
No □ Yes ☑ Describe and show design.	Satisfactory		
Other See Plans & Specifications			
Gravity Mains: 3" or larger I.D., minimum 6" fall per 100', 1500 lb. crush	Couveyance method: yes D no D comments		
strength or equivalent.	Satisfactory		
☑ Other]		
Distribution box:	Distribution box: yes \(\text{no } \text{no } \text{comments} \)		
Precast concrete with N/A ports.	Satisfactory		
□ Other			
Header lines:	Header lines: yes □ no □ comments		
Material: 4" l.D. 1,500 lb. Crush strength plastic or equivalent from distribution	Satisfactory		
box to 2' into the absorption trench. Slope 2" minimum,			
□ Other			
Percelation lines:	Percolation lines: yes a no a comments		
Gravity 4" plastic, 1,000 lb. per foot bearing load or equivalent, slope 2" to 4"	Satisfactory		
(minimum/maximum) per 100'.			
□ Other			
Absorption treuches:	Absorption trenches: yes □ no □ comments		
Square feet required 902;	Satisfactory		
Depth from ground surface to bottom of trench / pad			
Aggregate size N/A"; Trench/pad bottom slope N/A'; Center to center spacing 2'; Trench / Pad width N/A;	Date Inspected and approved by:		
Center to center spacing 2'; Trench / Pad width N/A; Trench / Pad length Varies; Number of Trenches / Pads 22	Date Inspected and approved by:		
Depth of aggregate in Trench / Pad N/A;	1		
Stocker Requirements: See Plans & Specifications	AOSE / Engineer / EHS		
·			

Health Department	PAGE 2 OF 26
Identification Number	PAGEOI

Schematic drawing of sewage disposal and/or water supply system and topographic features.

Show the lot lines of the building site, sketch of property showing any topographic features which may impact on the design of the well or sewage xosal system, including existing and/or proposed structures and sewage disposal systems and wells within 200 feet. The schematic drawing of the well site or area and/or sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system and subsurface soils absorption system, reserve area, etc. When a nonpublic drinking water supply is to be permitted, show all sources of pollution within 200 feet.

The information required above has been drawn on the attached copy of the sketch submitted with the application. Attach additional sheets as necessary to illustrate the design.

THIS PERMIT ISSUED UNDER THE 2000 SEWAGE HANDLING AND DISPOSAL REGULATIONS and GMP-107 (Generic Drip Disposal Policy) and GMP-112 (PuraFlo General Approval)

Install 3 drip irrigation laterals. All drip tubing to be placed on two (2) foot center to center spacing, installed at a depth of twelve (12) inches, and be placed on contour.

Maintain the following minimum separation distances:

Septic Tank / Drainfield to building foundation - ten (10) feet.

Septic Tank / Drainfield to property lines - five (5) feet.

Septic Tank / Drainfield to utilities - ten (10) feet.

Drip field to be installed with a vibratory plow and only in dry conditions. All trees and shrubs are to be removed from the drain field area by hand. DO NOT DRIVE, PARK, or STORE BUILDING SUPPLIES on the drain field area. Compacting the soils in this area will be cause to void the permit.

Install one (1) 1,000 gallon concrete septic tank as the primary treatment / septic tank. Install one (1) 1,000 gallon concrete septic tank as a pump chamber for dosing the PuraFlo Modules. Install one (1) 1,000 gallon concrete septic tank as the pump chamber for dosing of the drip irrigation field. All septic tanks are to be installed in accordance with applicable portions of the Sewage Handling and Disposal Regulations.

Install four (4) PuraFlo Modules (White). All modules are to have solid bottoms, with collection piping installed so as to be able to charge treated sewage to a one thousand gallon pump chamber for dosing a drip irrigation field.

Contact Coastal Plains Environmental Group, (804) 966-9190, prior to contacting the local health department should there be any difficulty with the installation.

Contact Coastal Plains Environmental Group a minimum of seventy-two (72) hours in advance of construction to arrange for inspection of the installation.

- 1. Protect the drainfield area during building construction. Heavy equipment and trucks, especially, may disturb the soil structure enough to make the sewage permit void. Do not allow anyone to drive, park, or store heavy construction materials in the drainfield area.
- 2. All trees should be removed from the drainfield area. Hydrophilic trees such as maples, cottonwoods, and willows must be removed from within 10 feet of the drainfield. An even greater distance is recommended. Tree roots interfere with the proper functioning of the drainfield and may lead to early failure of the system. Tree stumps should be removed with a stump grinder and not by bull-dozing or digging.
- 3. Pregrading of the drainfield site should only be done with the specific consent of the Health Department. The system is designed to be installed a specific depth from the original ground surface. Removing the topsoil or changing the contours of the site may make the drainfield area unusable. This will result in making the permit void.

This sewage disposal system and/or water supply is to be constructed as specified by the permit XX or attached plans and specifications XX.

This sewage disposal system and/or well construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit.

No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or ass expressly authorized by the local health department. Any part of any installation which has been covered prior to approval shall be overed, if necessary, upon the direction of the Department.

CONSTRUCTION NOTES & DETAILS CONTINUED:

PAGE _3_ OF _26_

- 1. All construction materials and methods must conform to applicable local and state Sewage Handling and Disposal Regulations.
- 2. Concrete tanks are to be installed on uniformly firm and stable compacted ground. Crushed stone is recommended to provide form support to tank bottom.
- 3. Septic and Processing tanks shall be water tight and conform to applicable local and state Sewage Handling and Disposal Regulations, and/or GMP-112 (PuraFlo General Approval).
- 4. System should be installed only during dry conditions.
- 5. All electrical connections shall be terminated in a water tight enclosure, and be above natural grade. No "piggy back" plugs will be approved.
- 6. Alarm and control panel are to be placed in an area that is easily monitored.
- 7. Master electrical disconnect switch shall be located within sight of the pump vault, or be so equipped that it can be "locked" out for maintenance purposes.
- 8. Pump and Alarm are to be on separate circuits.
- 9. Float settings are dependant upon the type of septic tank and pump chamber installed. Float settings are to be determined at time of installation. Ideal float and timer settings for the PuraFlo Treatment System will allow for a 1 minute dose cycle, followed by a 2 hour rest cycle. A pump down and alarm test will be required prior to certifying the system.
- 11. All PuraFloTM Treatment System components are to be installed in accordance with the appropriate "Designer / Engineering Package" manual issued to certified designers & installers.
- 12. Only those components and materials specified for use with the PuraFlo™ Treatment System, as specified in the "Designer / Engineering Package" are to be used. No substitutions will be approved.

PAGE 4 OF 26

CONSTRUCTION NOTES & DETAILS CONTINUED:

Design Specifications:

eatment system to be four (4) PuraFlo Bio Filter Treatment Modules All additional components (pump, pump vault, motor control moats & risers are to be compatible components as specified in the designer / installer package.

Pump to dose the PuraFlo Treatment System is to be an Orenco Model PWE-05HH or equivalent. Pump curve for Orenco Pump is included in the permit package. If contractor wishes to substitute a different pump. Contractor must provide pump curve data to Coastal Plains Environmental Group and local health department representatives for approval. [VASSCO, 7206 Richmond Ave., Lanexa, VA 23089, (1-800-965-8411)

Pump to dose the drip disposal field is to be an Orenco Model PEF-50 (NOTE - This Pump Specification is <u>Different</u> from the PuraFlo Pump Specification) or equivalent. Pump curve for Orenco Pump is included in permit package. If contractor wishes to substitute a different pump. Contractor must provide pump curve data to Coastal Plains Environmental Group and local health department representatives for approval. Drip systems rely on proper PSI (pounds per square inch) pressure to operate. [VASSCO, 7206 Richmond Ave., Lanexa, VA 23089, (1-800-965-8411)

Control Panel to be capable of duplex pump operation, and shall be an Orenco Model MVP-PTRO-HT-VA. (Suitable to operate both the PuraFlo Treatment System and the additional pump and timer used to dose the distribution area).

[VASSCO, 7206 Richmond Ave., Lanexa, VA 23089, (1-800-965-8411)

Drip tubing to be GeoFlow Wasteflow Pressure Compensating Drip Tubing, Model # WFPC16-2-24. (451 linear feet required) [VASSCO, 7206 Richmond Ave., Lanexa, VA 23089, (1-800-965-8411)

Head works box to be GeoFlow Model WHW-100-Man. Headworks box to include a Geoflow Vortex Spin Filter, Model AP4E-100. [VASSCO, 7206 Richmond Ave., Lanexa, VA 23089, (1-800-965-8411)

Air Vacuum Breaker / Air Relief Valve to be GeoFlow Model APVBK-1 (2 required). Air Vacuum Breaker shall be installed inside an appropriate valve box.

ASSCO, 7206 Richmond Ave., Lanexa, VA 23089, (1-800-965-8411)

Control Panel to contain a motor control switch that allows for hand/off/automatic operation, an audio/visual alarm, and a master disconnect switch. (Master disconnect switch may be separate from the control panel, but must be physically located that it can be seen and/or monitored from the pump vault during maintenance).

All pump / motor controls are to be hard wired. No "PIGGY BACK" plugs will be approved. All electrical wiring junctions and junction boxes should be placed outside of the pump vault, unless designed specifically for installation inside a pump vault. All electrical junction boxes shall be rated and designed for water tightness.

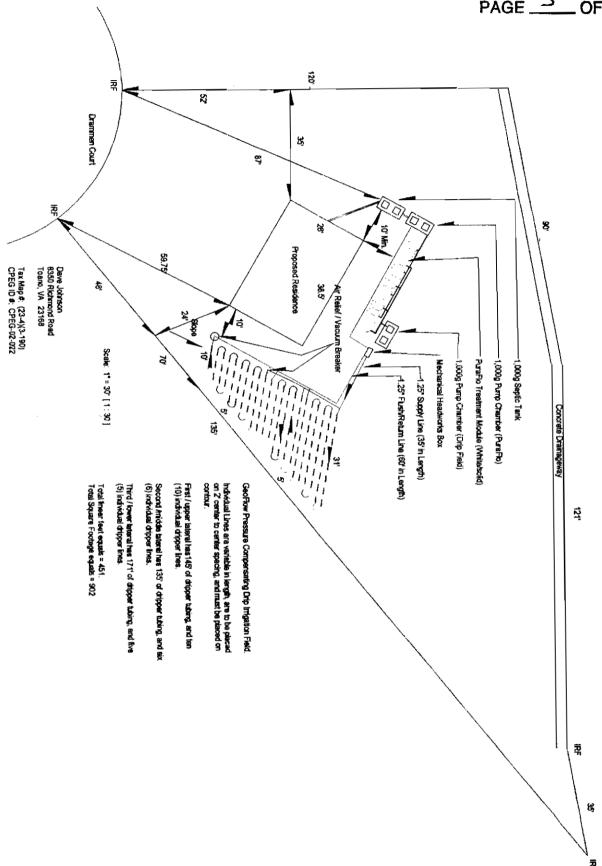
Supply Line and Flush Line for drip field is to be 1.25" PVC pressure rated pipe. All fittings are to be pressure rated. All fittings and joints are to be chemically welded and be water tight. Use of Drain Waste Vent piping is prohibited. Supply Line and Flush Line should be left exposed at all joints for inspection. Supply Line and Flush Line should be buried a minimum of eighteen inches below grade to prevent freezing. (A total of 150 linear feet of 1.25" PVC plus fittings is required (Supply Line / Flush Line & Return Line)

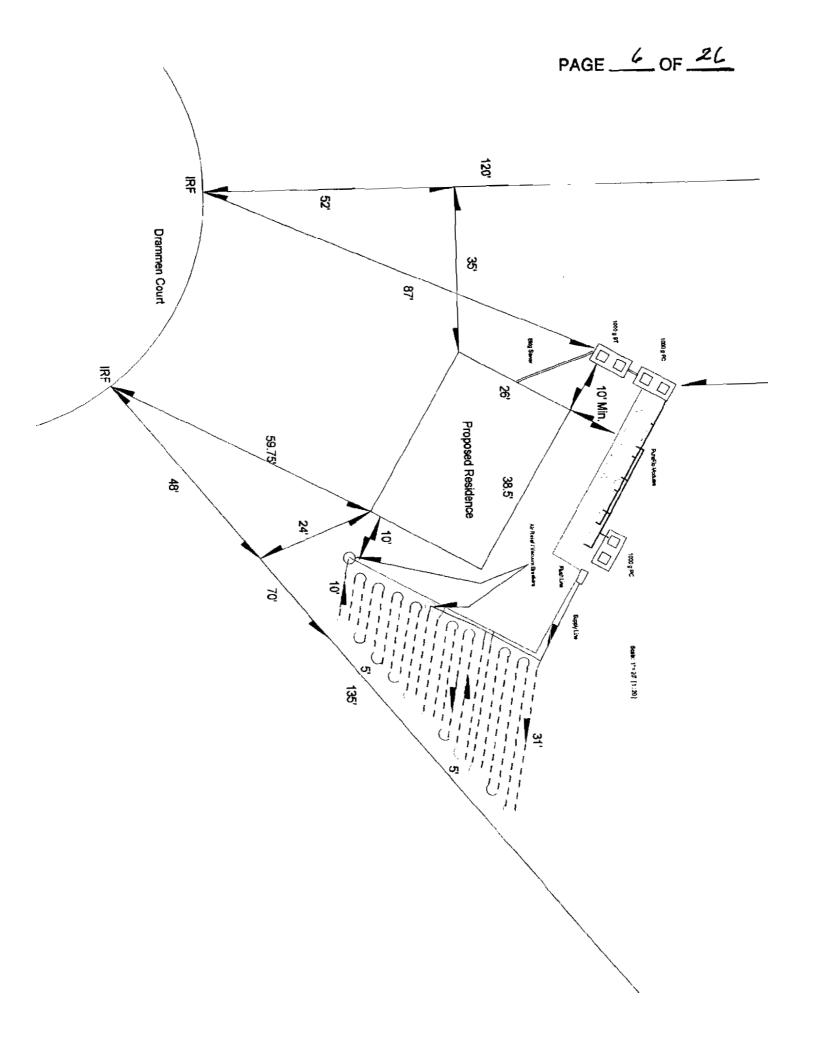
Backfill with suitable loose material free of large or damaging objects. Seed and straw backfilled area(s).

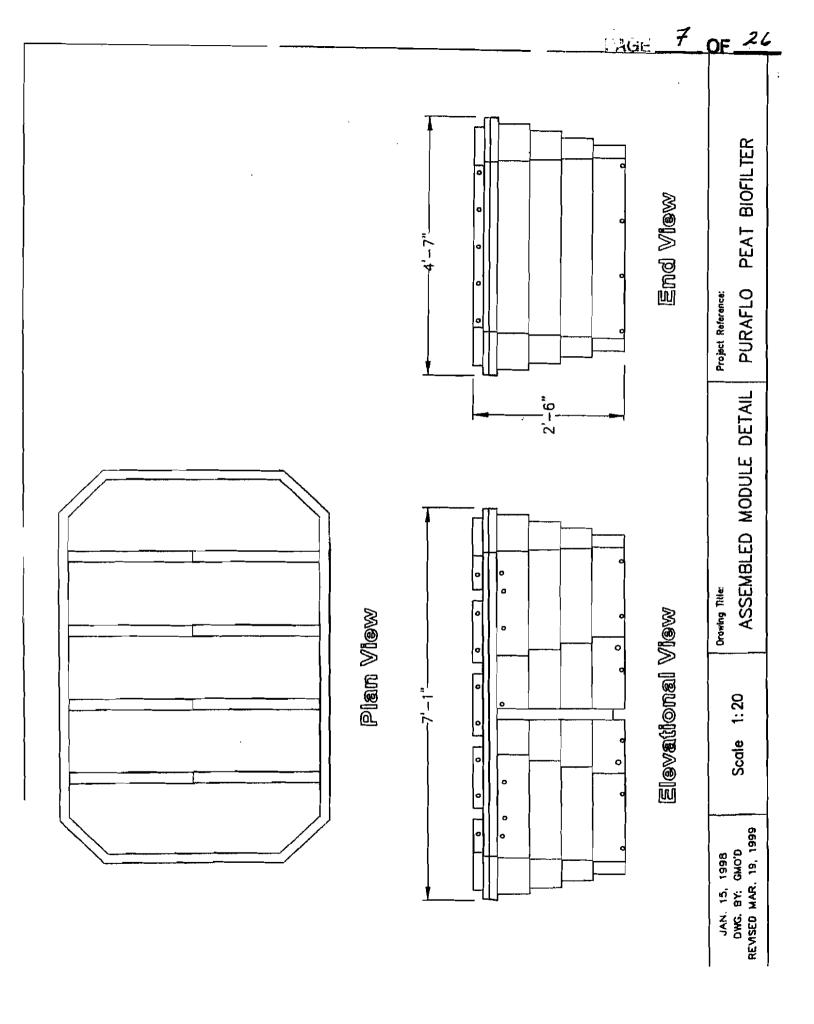
Backfill should be graded to prevent the infiltration of surface water, and to divert storm water run-off away from the system.

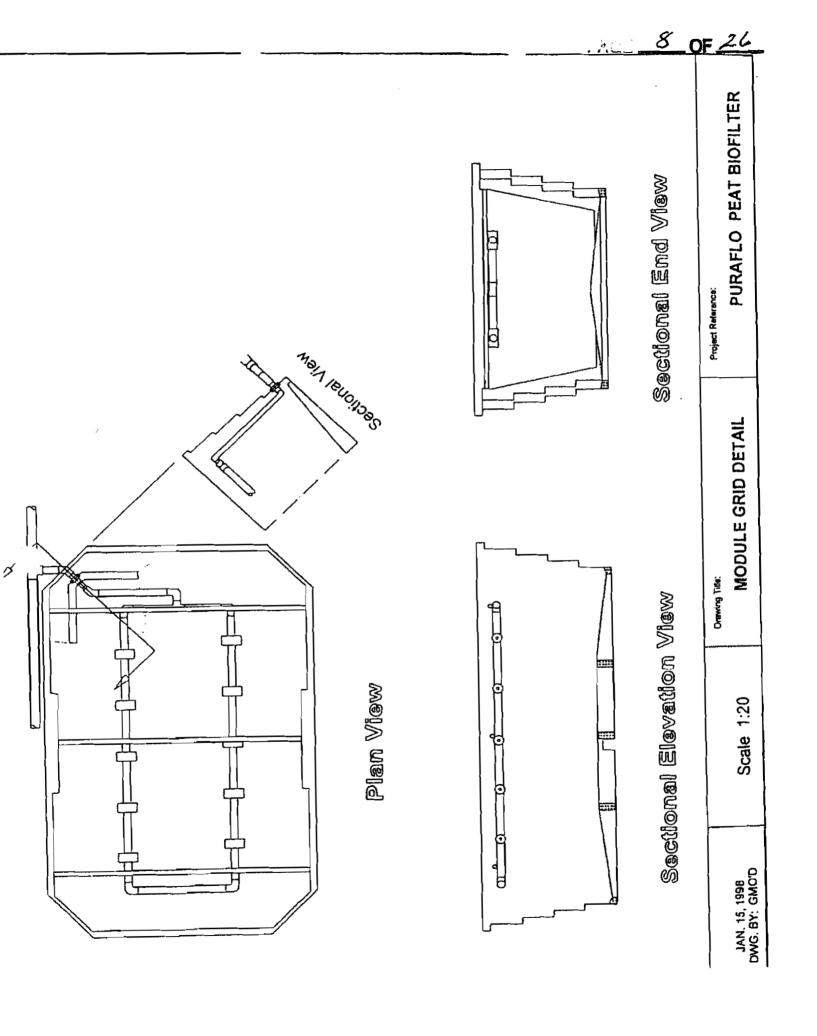
Contact Coastal Plains Environmental Group at (804) 966-9190 should there be any difficulties with the installation.

ntact Coastal Plains Environmental Group at (804) 966-9190 a minimum of seventy-two (72) hours prior to beginning installation to arrange for onsite inspection(s).









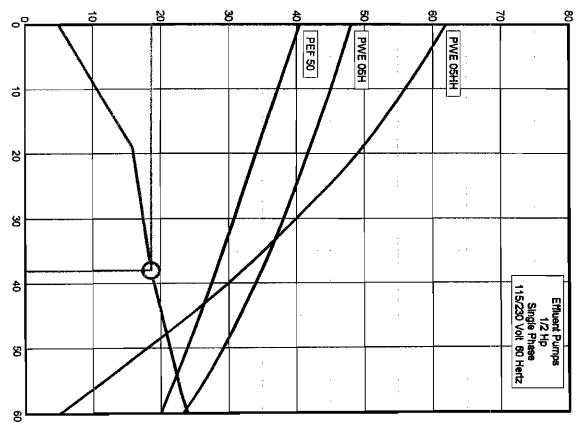
Jump Selection for a Non-Pressurized System

Add-on' Friction Losses Alculations Head Loss Through Distributing Valve 0.0 Head Loss in Transport Pipe 0.7 Head Loss Through Discharge 2.9 'Add-on' Friction Losses 10.0	Design Flow Rate 38 Distributing Valve Model None Lift to Discharge 5.0 Transport Line Size 2.00 Transport Pipe Class/Schedule 40 Discharge Assembly Size 2.00 Flow Meter None 'Add-on' Friction Losees 10.0
0.0 feet 0.7 feet 2.9 feet 0.0 feet	None None 5.0 feet 30.0 feet 2.00 inches 40 2.00 inches None inches

Total Dynamic Head (TDH), feet

Total Flow Rate

38.0 gpm 18.6 feet



Orenco Systems incorporated

814 AIRWAY AVENUE

97479-9012

SUTHERLIN, OREGON

TELEPHONE

(541-456-4469

FACSIMILE (SA1) 459-28B4

Net Discharge, gpm

Coastal . .ns Environmental Group, LLC Authorized Onsite Soil Evaluators

P.O. Box 236, New Kent, Virginia 23124

Office: (804) 966-9190

www.cpeglic.com

Fax: (804) 966-2739

Pump Chamber Volume Specifications

Gallons per Day Peak Flow:	450	gallons	
Pump Chamber Size:	4	Length Width Depth	96 inches 48 inches 54 inches
Gallons per Inch in Pump Chamber Pump Chamber Size in Gallons:		gallons gallons	
Gallons per Dose: Pump Run Time: Number of Doses Required: Number of Minutes for 24 hour Dosing: Dosing Interval: Number of Doses per Day: Pump Rest Time:	1 12 12 120 12	gallons minute doses minutes minutes doses minutes	
Total Operating Volume (18 hour) Gallons 1/4 Day Storage:		gallons gallons	
Liquid Depth Available for Use: Operating Volume Required:		inches inches	
Free Board / Void Space: Inlet to High Water Line: Minimum 1/4 Day Storage Alarm On Operating Volume	1 5.6 2	inches inch inches inches inches	
Liquid Depth Leftover: Total Depth of Pump Chamber Required:		inches inches	

Pump Specifications based on a 1000 Gallon Pump Chamber

PuraFlo Dosing Pump

Pump Chamber Size in Gallons: 1000 Gallons

18 Per Cycle: 38 Gallons

Drawdown in Inches: 1.9 (nohes

Meximum Pump Cycle Time: 1 Minutes 0 Seconds

(Gallons Per Cycle x's 21 GPM)

Type of Pump Required: Submersible Turbine Effluent Pump capable of 38 GPM at 18.6 Feet of Head. (Orenco Model PWE-05HH)

The Pump Station must be provided with controls for automatically starting and stopping the pump based on water level.

The electrical motor control center and master disconnect switch shall be placed in a secure location above grade and remote from the pump station.

Each motor control center shall be provided with a manual override switch.

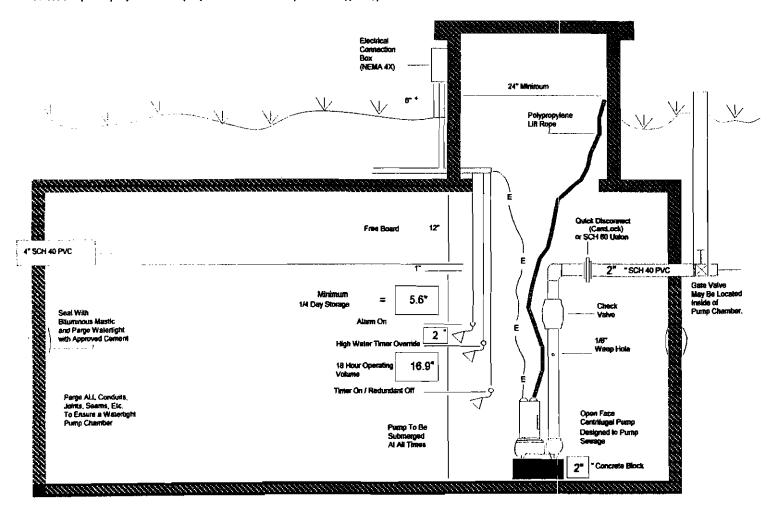
A highwater alarm with remote sensing and electrical circuitry separate from the motor control center shall be provided.

The alarm shall be audiovisual and shall alarm in an area where it may be easily monitored.

All electrical connections shall be hardwired in the electrical connection / junction box.

All piping shall be of the pressure type with pressure type joints that are chemically fused.

Contractor to provide pump statistics and pump curve data to Health Department for approval, prior to installation.





Zabel A300 Commercial and Industrial Wastewater Filter

SPECIFICATIONS

APPLICATIONS:

The A 100 is used in commercial and industrial, septic and sewer systems where grease, hair, lint and high suspended solids are present in the wastewater. This includes installations such as restaurant grease interceptor tanks, dog kennels, laundromats, wmeries, bakeries, poultry farms and anywhere wastewater must be pretreated before entering a private septic or public sewer system.

FLOW RATE:

5,000 gpd per filter. You may install two or more filters in a PVC or comprete manufold to achieve flow of 6,000 gpd or more. Check with Zabel for details.

FILTRATION:

The 27 Disc Dams @ 1/32 inch provide 205 lineal feet of filtration.

5" O.D. 4-1/2" I.D.

1-3/16" -

11-13/16

11-3/8" DIA.

16

INSTALLATION:

The filter may be installed inside the tank or installed in a Zabel Container Assembly outside the rank. Ground level access for servicing is recommended.

SERVICE:

The Zabel A 300 Filter is designed to be easily serviced. However the A 300 astalled in such a wide variety of applications, each application will require a different service schedule. Please check with Zabel for service specification details.

Material Specilivations

Cases, Lids, Reducers

Discs

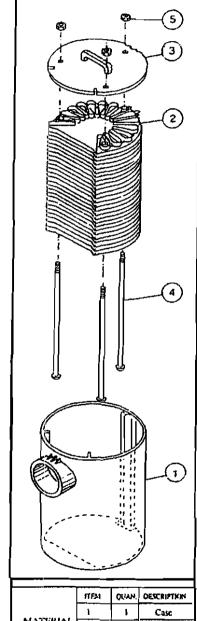
Rods, Nuts

Rigid Vinel PYC 87371 High Impact Polystyrene

High Density Polyethylene

"Optional" Extension Reducer -

U.S. Patent No. 4,710,295



	пғы	OLIAN.	DESCRIPTION
MATERIAL LIST	1	1	Case
	2	27	Filter disc
)	1	Cover
	4	3	Rod
	5	3	Nut

DRIP IRRIGATION CALCULATION WORKSHEET

PAGE 13 OF 26 Number of Bedroom Residence 3 B.R. @ 150 gpd Water Conservation Percentage 0 % Total Gallons Per Day Sewage Flow 450 gpd Soil Percolation Rate 30 mpi Texture Group 2 Texture Group (Use Numeric 1,2,3, or 4) LPD Square Footage Per Bedroom 255 ft2 / bedroom (Table 4.6) Minimum Square Footage Required by Regs. 1147.5 ft2 / gpd sewage disposal GMP-114 Loading Rate for 2' Trenches 1.66 gpd / f2 (GMP-114, Table 4) Site Reduction Allowed by GMP-114 271 ft2. Minimum Linear Feet of LPD Trench Required 135.5 linear ft. Minimum Number of Laterals Required 3 Laterals (50' max. length) Total Area Required for LPD System 1000 ft2 of area required Maximum Target Soil Loading Rate 0.3 gpd / ft2 (Table 1 of Drip Manual) Minimum Soil Loading Rate for DF Area Found 0.45 gpd / ft2 Designed Soil Loading Rate 0.45 apd / ft2 813 ft2 of area required Area Required for Installation Total Length of Dripper Line Required 406.5 linear feet Number of Emitters Required 203.25 emitters Absorption Field Dosing Rate in GPH 123.98 gph Absorption Field Dosing Rate in GPM 2.07 gpm Suction Line Size 2 inches 8 feet Suction Line Length Suction Line Lift (elevation change) 4 feet Friction Loss for Suction Pipe 0.09 per 100' of pipe (Chart 1A) P.S.I. Loss for Suction Pipe 0 psi ZONE # 1 Total Absorption Area 902 ft2. Linear Feet of Dripper Line 451 ft. Longest Lateral Length 171 ft. Dripper Line Pressure Requirements 7 per 100' of pipe (Chart 3A) **PSI Loss for Lateral** 5.18 psi Diameter of Supply Line 1.25 inches Length of Supply Line 35 ft. Supply Line Friction Loss 0.27 per 100' of pipe (Chart 1A) PSI Loss for Supply Line 0.04 psi 1,25 inches Diameter of Flush Line Length of Flush Line 60 ft. 0.27 per 100' of pipe (Chart 1A) Flush Line Friction Loss PSI Loss for Friction Line 0.07 psi Elevation Change 10 ft. G.P.M. Dosing Flow Rate 2.07 gpm Number of Return Field Flush Connections 3 G.P.M. Field Flush Flow Rate 4.8 gpm G.P.M. Total Flow Required 6.87 gpm

ZONE#2

Linear Feet of Dripper Line	O ft.	
Longest Lateral Length	0 ft.	(
Friction Loss for Lateral	0 per 100' of pipe	(Chart 3APAGEOFOF
PSI Loss for Lateral	0 psi	
Diameter of County Line	0.1	
Diameter of Supply Line	0 inches	
Length of Supply Line Supply Line Friction Loss	0 ft.	(Ob 4.4)
PSI Loss for Supply Line	0 per 100' of pipe	(Chart 1A)
· Or Loss for Oupply Lifte	0 ps í	
Diameter of Flush Line	0 inches	
Length of Flush Line	0 ft.	
Flush Line Friction Loss	0 per 100' of pipe	(Chart 1A)
PSI Loss for Friction Line	0 psi	
Elevation Change	0 ft.	
G.P.M. Dosing Flow Rate	2.07 gpm	
Number of Return Field Flush Connections	0	
G.P.M. Field Flush Flow Rate	0 gpm	
G.P.M. Total Flow Required	2.07 gpm	
O.1 .111. 10tal 1101 110quilou	2.0, gp	
ZONE #3	60	
Total Absorption Area	ft2.	
Linear Feet of Dripper Line	0 ft.	
Longest Lateral Length	0 ft.	(2)
Friction Loss for Lateral	0 per 100' of pipe	(Chart 3A)
PSI Loss for Lateral	0 psi	
Diameter of Supply Line	0 inches	
Length of Supply Line	O ft.	
Supply Line Friction Loss	0 per 100' of pipe	(Chart 1A)
PSI Loss for Supply Line	0 psi	(2.1.1.1.7)
Diameter of Flush Line	O inches	
Length of Flush Line	0 inches 0 ft.	
Flush Line Friction Loss	0 per 100' of pipe	(Chart 1A)
PSI Loss for Friction Line		(Chart 1A)
F31 LOSS TOLY TICKION LINE	0 ps i	
Elevation Change	0 ft.	
G.P.M. Dosing Flow Rate	2.07 gpm	
Number of Return Field Flush Connections	0	
G.P.M. Field Flush Flow Rate	0 gpm	
G.P.M. Total Flow Required	2.07 gpm	
ZONE#4		
Total Absorption Area	ft2.	
Linear Feet of Dripper Line	0 ft.	
Longest Lateral Length	0 ft.	
Friction Loss for Lateral	0 per 100' of pipe	(Chart 3A)
PSI Loss for Lateral	0 psi	(Ontario de la constantina della constantina del
	,	
Diameter of Supply Line	0 inches	
Length of Supply Line	0 ft.	
Supply Line Friction Loss	0 per 100' of pipe	(Chart 1A)
PSI Loss for Supply Line	0 psi	
Diameter of Flush Line	0 inches	
Length of Flush Line	0 ft.	
Flush Line Friction Loss	0 per 100' of pipe	(Chart 1A)
i idon Enio i nodon Eoso	C P3, 100 01 bibo	7- · 4

PSI Loss for Friction Line 0 psi PAGE 15 OF 26 **Elevation Change** 0 ft. G.P.M. Dosing Flow Rate 2.07 gpm Number of Return Field Flush Connections 0 G.P.M. Field Flush Flow Rate 0 gpm G.P.M. Total Flow Required 2.07 gpm PSI Loss for Pump / Headworks Box 2 psi (Chart 2A) G.P.M. Total Flow Required 6.87 gpm TOTAL PSI LOSS TO OVERCOME 11.62 psi Pump Chamber Size 1000 gallons Numbr of Gallons per Inch 19.95 gallon / inch Gallons per Day for Zone # 1 450 gallons per day Total Time Required to Dose Zone #1 217.39 minutes per day The Zone should be dosed for no longer than twenty (20) minutes, and no less than six (6) minutes. How many times per day do you wish to dose the field(s) / zone(s). 12 times per day 38 gallons per dose Gallons per Dose for Zone # 1 18.12 minutes per dose Time per Dose for Zone #1 Gallons per Dose for Zone # 2 0 gallons Total Time Required to Dose Zone # 2 0 minutes per day Gallons per Dose for Zone # 2 0 gallons per dose Time per Dose for Zone #2 0 minutes per dose Gallons per Dose for Zone #3 0 gallons Total Time Required to Dose Zone #3 0 minutes per day Gallons per Dose for Zone # 2 0 gallons per dose 0 minutes per dose Time per Dose for Zone # 2 Gallons per Dose for Zone #4 0 gallons 0 minutes per day Total Time Required to Dose Zone #4

Maximum Gallons per Dose Pump Chamber Depth in Inches Pump Chamber Working Volume Available

Gallons per Dose for Zone # 2

Time per Dose for Zone # 2

38 Gallons per Dose

0 gallons per dose

0 minutes per dose

48 inches

36 inches (minus 12" freeboard)

Quarter Day Storage Volume Required Recommended Eighteen Hour Operating Volume Alarm Float set 2" above operating Volume Volume of Effluent to be dosed

15.01 inches (minus the dosing volume)

2 inches

1.9 inches

5.64 inches

Total Pump Chamber Volume Utilized 24.55 inches Pump Chamber Volume Left Available 11.45 inches

Punt Selection for a Pressurized System

	Language Landing		/	ļ
	GIMENT			
,				
		ı		

PAGE_				
Number of Laterals per Cell	Orffice Spacing	Residual Head at Last Orifice	Orifice Size	
w	2.00	5,0	1/18	
	叠	6 6	inches	
	•	Number of	Residual Head at Last Orifice Orifice Spacing Number of Laterals per Cell	Orifice Size uel Head at Last Orifice Orifice Spacing ber of Laterals per Cell

Lateral Pipe Class/Schedule Distributing Valve Model Lateral Line Size None 1.25 inches

Manifold Pipe Class/Schedule Manifold Line Size Manifold Length 1.25 inches 8.0 feet 8

Transport Pipe Class/Schedule Transport Line Size Transport Length Lift to Manifold 2.8 35.0 feet 10.0 feet inches

Discharge Assembly Size Flow Meter None inches 2.00 inches

'Add-on' Friction Losses 10.0 feet

- Calculations -

Minimum Flow Rate per Orifice

0.11

율

Number of Orifices per Zone

% Flow Differential 1st and Last Orifice

Number of Lines per Zone

Total Actual Flow Rate

gpm

Head Loss Through Distributing Velve

Residual Head at Last Orifice

Lift to Manifold

10.0 feet

Head Loss in Laterals

Head Loss Through Flow Meter

0.0 feet 1.3 feet 0.4 feet

'Add-on' Friction Losses

Total Flow Rate

25.0 gpm 27.4 feet

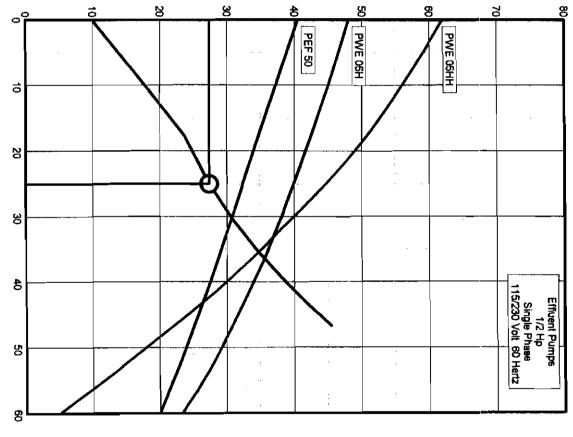
Head Loss Through Discharge

Head Loss in Transport Pipe

Head Loss in Manifold

0.2 feet 0.0 feet 0.6 feet 5.0 feet

Total Dynamic Head (TDH), feet





Orenco Systems*
Incorporated

97479-9012 SUTHERLIN, OREGON B14 AIRWAY AVENUE

(541) 459-4449

TELEPHONE

FACSIMILE:

(541) 459-2884

Net Discharge, gpm

Coastal ins Environmental Group, LLC Authorized Onsite Soil Evaluators

PAGE _______OF____27_

P.O. Box 236, New Kent, Virginia 23124

Office: (804) 966-9190 www.cpegllc.com Fax: (804) 966-2739

Pump Chamber Volume Specifications

Gallons per Day Peak Flow:	450	gallons	
Pump Chamber Size:	4	Length Width Depth	96 inches 48 inches 54 inches
Gallons per Inch in Pump Chamber Pump Chamber Size in Gallons:		gallons gallons	
Gallons per Dose: Pump Run Time: Number of Doses Required: Number of Minutes for 24 hour Dosing: Dosing Interval: Number of Doses per Day: Pump Rest Time:	20 12 240 120 12	gallons minute doses minutes minutes doses minutes	
Total Operating Volume (18 hour) Gallons 1/4 Day Storage:		gallons gallons	
Liquid Depth Available for Use: Operating Volume Required:		inches inches	
Free Board / Void Space: Inlet to High Water Line: Minimum 1/4 Day Storage Alarm On Operating Volume	1 5.6 2	inches inch inches inches inches	
Liquid Depth Leftover: Total Depth of Pump Chamber Required:		inches inches	

Pump Specifications based on a 1000 Gallon Pump Chamber

Drip Field Dosing Pump

oump Chamber Size in Gallons: 1000 Gallons

Gallons Per Cycle: 38 Gallons

Drawdown in Inches: 1.9 Inches

Maximum Pump Cycle Time: 18 Minutes 10 Seconds

(Gallons Per Cycle x's 21 GPM)

Type of Pump Required: Submersible Turbine Effluent Pump capable of 25.0 GPM at 27.4 Feet of Head. (Orenco Model PEF-50)

The Pump Station must be provided with controls for automatically starting and stopping the pump based on water level.

The electrical motor control center and master disconnect switch shall be placed in a secure location above grade and remote from the pump station.

Each motor control center shall be provided with a manual override switch.

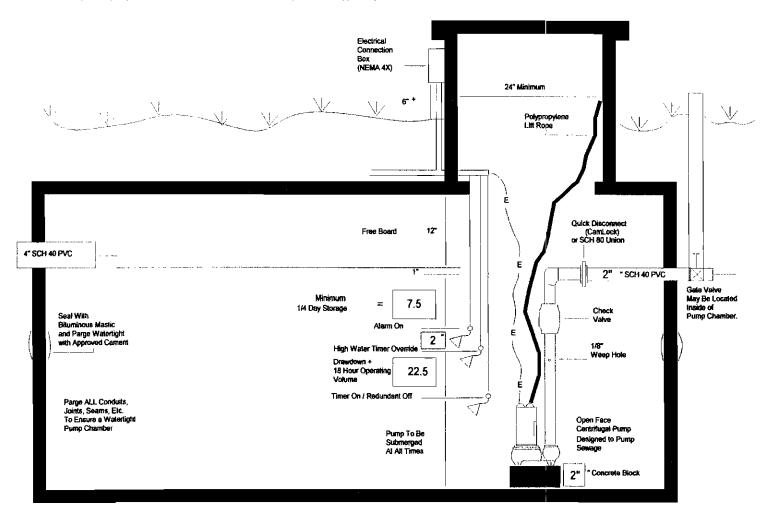
A highwater alarm with remote sensing and electrical circuitry separate from the motor control center shall be provided.

The alarm shall be audiovisual and shall alarm in an area where it may be easily monitored.

All electrical connections shall be hardwired in the electrical connection / junction box.

All piping shall be of the pressure type with pressure type joints that are chemically fused.

Contractor to provide pump statistics and pump curve data to Health Department for approval, prior to installation.





Coastal Plains Environmental Group

P.O. Box 236, N Office: (804) 966-9190

New Kent,

Virginia 23124

Office: (804) 966-9190 Facimile: (804) 966-2739

oil Evaluation Form	Page1 of3
General Infor	mation
Date_ 04 - 01 - 02	
Applicant Dave Johnson	Telephone No. (757) 566-4664
Address 8350 Richmond Road, Toano, VA 23168	
Owner Same As Above Address Same As	Above
Location 1 Drammen Court, Norge, VA Subdivision Christiansand Block/Section 7	Lot19
Soil Information	Summary
1. Position in landscape satisfactory YES ☑ No ☐ Describe	Side Slope bordered by drainageways - lightly forrested
2. Slope <u>04 - 16</u> %	
3. Depth to rock/impervious strata Max Min	None XXX
4. Depth to seasonal water table (gray mottling or gray color) NO □	YES 🗷 <u>18</u> inches
5. Free water present NO 🗵 YES 🗋 range in	inches
Soil percolation rate estimated YES 🖾 Texture group I NO 🖸 Estimated rate 30	
7. Percolation test performed YES □ Number of percolation NO 図 Depth of percolation test Average percolation rate.	st holes
Name and title of evaluator: Kornell R. Davis Jr., AOSE # 109	
Signature:	
Department	Use
☑ Site Approved: Drainfield to be placed at 12" depth at s ☐ Site Disapproved:	ite designated on permit.
Reasons for rejection: 1. Position in landscape subject to flooding or periodic saturation. 2. Insufficient depth of suitable soil over hard rock. 3. Insufficient depth of suitable soil to seasonal water table. 4. Rates of absorption too slow. 5. Insufficient area of acceptable soil for required drainfield, and/of. Proposed system too close to well. 7. Other Specify:	

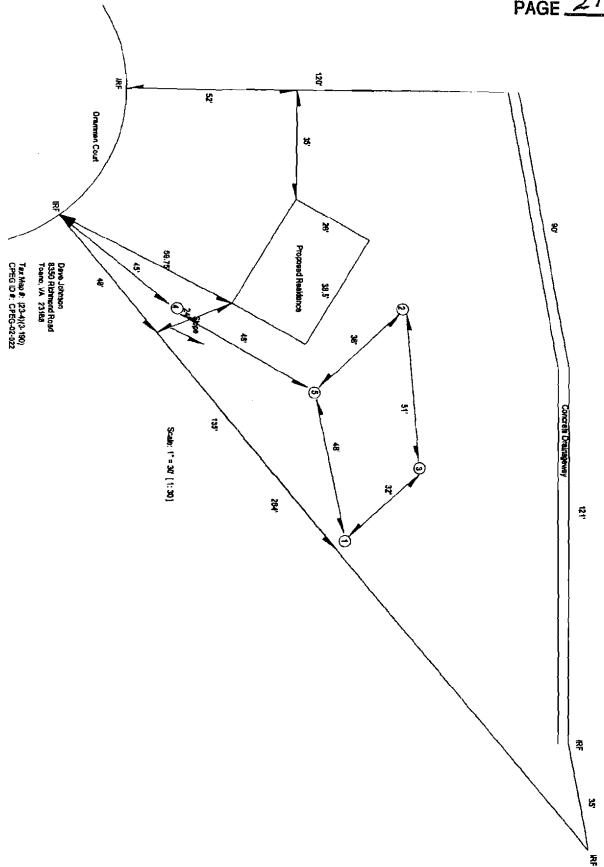
Date of Evaluation 04-01-02	Profile Description	
	SOIL EVALUATION REPORT	Identification No. <u>02 - 022</u>
Page 2 of 3		

Where the local health department conducts the soil evaluation the location of profile holes may be shown on the schematic drawing on the construction permit or the sketch submitted with the application. If soil evaluations are conducted by a private soil scientist, location of profile holes and sketch of the area investigated including all structural features i.e., sewage disposal systems, wells, etc., within 100 feet of site (See section 4) and reserve site shall be shown on the reverse side of this page or prepared on a separate page and attached to this form.

		ation sketch	☐ See construction permit ☑ See sketch on reverse side or page attache	d to this form.
Hole #	Horizon	Depth (Inches)	Description of, color, texture, etc.	Texture Group
Ι,	1	00 - 03	Provent (10 = 5/2) Cond. Y com	
1	A E	00 - 03	Brown (10yr 5/3) - Sandy Loam - Light Yellowish Brown (10yr 6/4) - Sandy Loam	lia Jia
ļ	Bti	12 - 26	Brownish Yellow (10yr 6/6) - Sandy Clay Loam	718 11b
i	P	26 - 27	Brownish Yellow (10yr 6/6) - Sandy Clay Loam - with indicators of iron pan	IIP
}	Bt2	27 - 48	Strong Brown (7.5yr 5/6) - Sandy Clay Loam to Clay Loam - with many Light	116 / 111
	BL2	21 - 40	Gray (2.5y 7/2), and few Yellowish Red (5yr 5/6) Mottles	1107111
2	A	00 - 03	Brown (10yr 5/3) - Sandy Loam -	lla
ļ	E	03 - 12	Light Yellowish Brown (10yr 6/4) - Sandy Loam to light Sandy Clay Loam -	lla/b
(Btl	12 - 20	Brownish Yellow (10yr 6/6) - Sandy Clay Loam -	llb
l	Bt2	20 - 42	Reddish Yellow (7.5yr 6/6) - heavy Sandy Clay Loam to light Clay loam -	116/111
]	}		with few Pale Yellow (2.5y 7/4) and few Light Gray (10yr 7/2) Mottles	
3	A	00 - 08	Brown (10yr 5/3) - Sandy Loam -	lla
	Ep	08 - 12	Yellowish Brown (10yr 5/6) - Sandy Loam - with few iron pan indicators	Ila
ì	Btl	12 - 16	Brownish Yellow (10yr 6/6) - light Sandy Clay Loam -	116
ı L	Bt2	16 - 28	Brownish Yellow (10yr 6/6) - light Clay Loam - with few Light Gray (10yr 7/2) and few Pale Yellow (10yr 7/4) Mottles	111
4	A	00 - 02	Grayish Brown (10yr 5/2) - Sandy Loam -	lla
ĺ	∫E '	02 - 06	Light Yellowish Brown (10yr 6/4) - Sandy Loam -	lla
)	Bt1	06 - 14	Brownish Yellow (10yr 6/6) - Sandy Clay Loam -	llb
	Bt2	14 - 18	Strong Brown (7.5yr 5/6) - light Clay Loam -	III
	Bt3	18 - 24	Strong Brown (7.5yr 5/6) - Clay Loam - with few Light Brownish Gray (10yr 6/2) Mottles	111
5	Ai	00 - 01	Grayish Brown (10yr 5/2) - Sandy Loam -	l] Ila
	A2	01 - 09	Yellowish Brown (10yr 5/4) - Sandy Loam -	lla
ĺ	Bt1	09 - 13	Yellowish Brown (10yr 5/6) - heavy Sandy Loam -	IIb
}	Bt2	13 - 24	Strong Brown (7.5yr 5/6) - Sandy Clay Loam -	lIb
	Bt3	24 - 35	Strong Brown (7.5yr 5/6) - Clay Loam - with many Light Brownish Gray (10yr 6/2) Mottles	lii
-	Bt4p	35 - 38	Strong Brown (7.5yr 4/6) - Sandy Clay Loam - with indicators of iron pan	llb
[Bt5	38 - 54	Strong Brown (7.5yr 5/6) - Sandy Clay Loam to Clay Loam -	11b/III
[Bt6	54 - 60	Strong Brown (7.5yr 4/6) - Clay Loam - with many Gray (10yr 6/1) Mottles	111

Remarks: Borings #2 & #3 downslope from proposed drip irrigation site ... not used to define drain field area.

Propose drip irrigation at 12" install depth @ 30 mpi = 450 gpd / 1.66 hlr = 271 sq' x 3 = 813 sq' = 29' x 29' install area [P] using PuraFlo as secondary treatment



Soil Evaluation Form

PAGE ____ OF __3___

Commonwealth of Virginia partment of Health

Health Department Identification Number 117-98-0033

Tax Map Number(33-47(3-798)
General Information
Date MAR 47, 1992 Health Department
Applicant ATECH CONSTRUCTION, INC (STEVEN WALE, AGENT) Telephone No. 599-5305
Address 421 NONTH AVE NEWFORT NEWS, VA 23602
Owner KRISTIANSAND PARTNERSHIP Address
Location / Deammer Cover
Subdivision Kristin SAND Block/Section 7 Lot 190
Soil Information Summary
1. Position in landscape satisfactory Yes ☑ No ☐ Describe Suitable AREA ON SIDE SCOPE, AUT A LARGE PERTION OF CUT IR IN DEALHRGEWM
2. Slope <u>23-3/</u> %
3. Depth to rock/impervious strata Max. <u>L.S."</u> Min. <u>/8."</u> None 4. Depth to seasonal water table (gray mottling or gray color) No 🗆 Yes 🗵 <u>24-60</u> inches
<u> </u>
5. Free water present No Ø Yes ☐range in inches 6. Soil percolation rate estimated Yes Ø Texture group
7. Percolation test performed Yes No Depth of percolation test holes Average percolation rate
Name and title of evaluator. JAINES H. BOWLES SANTARIAN SUPERVSOR
Signature: Jones H. Jowells
Department Use
☐ Site Approved: Drainfield to be placed atdepth at site designated on permit.
图 Site Disapproved:
Reasons for rejection: 1. — Position in landscape subject to flooding or periodic saturation.
2. Insufficient depth of suitable soil over hard rock
3. X Insufficient depth of suitable soil to seasonal water table. 4. Rates of absorption too slow.
5. Insufficient area of acceptable soil for required drainfield, and/or Reserve Area. 6. Proposed system too close to well.
7.2 Other Specify /NSUFFICIAL DEPTH OF SUITABLE SOIL TO IMPERMEABLE STRATA

Tite of Evaluation MAR 27 1992

Profile Description SOIL EVALUATION REPORT

Health Department Identification No. 147-93-003 3

Page _____3__ or ___3__

Where the local health department conducts the soil evaluation the location of profile holes may be shown on the schematic drawing on the construction permit or the sketch submitted with the application. It soil evaluations are conducted by a private soil scientist, location of profile holes and sketch of the area investigated including all structural features i.e., sewage disposal systems, wells, etc., within 100 leet of site (See section 4) and reserve site shall be shown on the reverse side of this page or prepared on a separate page and attached to this form.

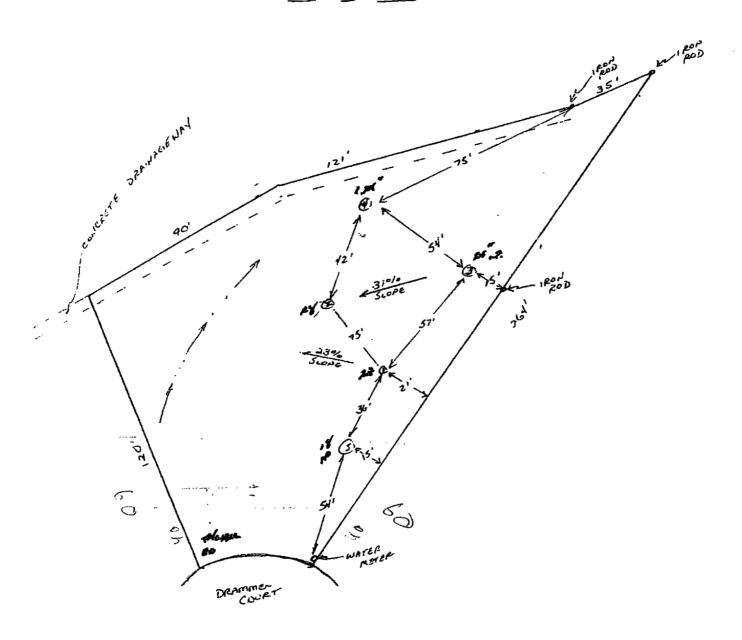
Hole #	Horizon	Depth (Inches)	Description of, color, texture, etc.	Texture Group
	A	0-1	GRAYISH BROWN (104R 5/3): SAMDY LOAM	ZI
	<u> </u>	4-16	YELLOW (104R7/6); SANDY LOAM	- I
	8-1	16-17	BROWNISH YGLERY (104PLIG) CLAY COMPY WITH	!
			LENSES OF REDDISH YELLOW (7.54RG/G)	i
			CORPSE SANDY LOAM	777
	Br 2_	27-36	BROWNISH YELLOW (104R6/6) WITH COMMON	:
			GEAY (104R411) MOTTLES: CLAY LOAM	Ш
	33	36-40	REDDISH YELLOW (7.54RG/G) COMESE SANDY CLAY	i
			LOAM WITH COMMON OLIVE YELLOW (3.5YL)	<u> </u>
			CLAY LENSES	TI
	84	40-41	REDORN YELLOW (7.54R 7/B) COARSE SANDY COAM	_i
i		٠,	(WEAKLY CEMENTED PAN)	: 27
	735 !	41-60	YELLOW (1048718) CORRIG SANDY GARD WITH	!
			Common to FEW YELLOW (2.517/6) & GRAV	;
			(104RG/1) CLAY LENGES: WEAK PANGSY	I
	36	60-74	YELLOW (2.547/6) & CHAY (LOYR C/1); SAND!	
			CLAY COAM : COMPACT	
	<u> </u>		IRON PAN C GR"	I
. !	J			
				
ا ا	A/	0-2	DARK GRAVISH BROWN (104A4/2); SAWDY LOAM	
			I KON PAN@2"	_ <i></i>
<u>:</u>	<u> </u>	J · /O	BROWN (104R513); SONDY LOAM	· <u>zr</u>
	<i>E</i> !	10-16	LIGHT YELLOW BROWN (104R6/4); SANDY LOAM	<u></u>
<u>_</u>	<u> </u>	16-28	REDDISH YELLOW (7.54R6/G); SANDY CLAY LOAM	<u>: I</u>
	3-5	28-42	REDDISH YELLOW (7.54RC/G); CLAY CEAM:	<u> </u>
			Common BLACK METILES FRUM 36"	
			(B-ALK MOTILES APPEAR TO BE IMON SEGREM	
:	8-3	42-48	OLINE YELLOW (2.54 G/E) & GRAY(104RG/1) É	
			STRONG BECWAI T. STRS/8); CLAY;	
			COMPACTÉ FIRM IN PLACE	71
- 			 	
3	A :	0-4	BROWN (1042 5/3); SANDY COAM	<u> </u>
	<u> </u>	4-16	LIGHT YELLOW BEOMY (10+186/4); SONDY LOAM	Ī
	- 3 × / _	16-24	BROWNISH YELLOW (104/26/8) BOTTO COMMON!	WB
			Grant (10 18 c/r) & FEAT YECCEUSER RED (STREET	}
			MOTES; CONTLOR TOHAB; SANDY CLAYL	
<i>*</i>		<u> بنو</u>	1 RON PAN @ 24"	
7	Brz _	24-42	BROWNESH YOUGH (1048618) WITH COMMEN CIER	/ _
			(10 YRG/1) & FEW YELLOWISH RED (5 YR 5/6) MOTH	<u> </u>
			CLAYLORM TO SAMPY CLAY COAM	IL-I
_4	B/	0-14	STEONS BROWN (7.54R5(B); SANDY COOM	<u> </u>
	3 ₇ 2	16-24	STRANG BROWN (75485/8): SANDY CLAY LOAM	_ <i>I</i> I
	みァ 3	24-28	STRONG BROWN (7.51RS/B); CLAY LOAM TO CLAY;	
			COMPACT & FIRM IN PLACE	TIL - TV

Remarks

^ate of Eva	iluation <u>MAR</u>	27,1992	Profile Description Health Department SOIL EVALUATION REPORT Identification No. 25'	7-92-0033
			Page	3 of 3
construction holes and sk section 4) an	n permit or the si ketch of the area	ketch submitted with the a investigated including a shall be shown on the rev	evaluation the location of profile holes may be shown on the schemat application. If soil evaluations are conducted by a private soil scientist, all structural features i.e., sewage disposal systems, wells, etc., within 10 years side of this page or prepared on a separate page and attached to	ic drawing on the location of profile 10 feet of site (See this form.
Hole #	Horizon	Depth (Inches)	Description of, color, texture, etc.	Texture Group
				texture Group
5	<u> </u>	0-4	DARK GRAYISH BROWN (104R412): SANDY LOAM	<u> </u>
	<u> </u>	4-16	PALE BROWN (104R 6B); SANDY LOAM	<i>I</i>
		16-18	IRON PAN - AUGER REJECTION @ 18"	<u> </u>
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Remarks

Nor TO SCALE





Coastal Plains Environmental Group PAGE 24 OF 26

Authorized Onsite Soil Evaluators

P.O. Box 236, New Kent, Virginia 23124

Office: (804) 966-9190

www.cpeglic.com

Fax: (804) 966-2739

Soil Evaluations - Septic System Design - Advantex System Design - Subdivision Review

Certification Statement

James City County

04 June 2002

Property Identification:

1 Drammen Court

Christiansand, Section 7, Lot 190

Tax Map #: (23-4)(3-190)

Submitted by:

Kornell R. Davis Jr., AOSE #109

This is to certify according to §32.1-163.5 of the Code of Virginia that work submitted for the referred property is in accordance to and complies with the Sewage Handling and Disposal Regulations of the Virginia Department of Health and GMP-112 PuraFlo General Approval, and GMP-107 Generic Drip Disposal Policy.

I recommend a permit be approved.

Kornell R. Dayis Jr.

AOSE #109

1.4. EDOE

Date

DAVID JOHNSON 8350 RICHMOND RD. TOANO, VA. 23168

DAVID ANDERSON JCC PLANNING DIVISION MOUNTS BAY RD. WILLIAMSBURG, VA. 23188

1 JULY 2002

DEAR MR. ANDERSON,

WE ARE ASKING FOR A WAIVER FOR #1 DRAMMEN COURT FROM THE DEVELOPMENT REVIEW COMMITTEE. A STANDARD SEPTIC SYSTEM WAS NOT APPROVED BY THE STATE HEALTH DEPARTMENT. THE HEALTH DEPARTMENT HAS APPROVED A SEPTIC SYSTEM WHICH YOU HAVE THE PERMIT FOR.

WE WOULD APPRECIATE YOUR CONSIDERATION IN THIS MATTER. IF YOU HAVE ANY QUESTIONS PLEASE CALL ME AT 596 3004

THANK YOU. SINCERELY,

DAVID JOHNSON



SP-81-02. Ironbound Village Master Plan Amendment Staff Report for the July 31, 2002, Development Review Committee Meeting

SUMMARY FACTS

Applicant:

Mr. C.J. Bodnar, Landmark Design Group

Land Owner:

Mr. Robert Turlington

Use:

A mixed-use development with up to 18,250 square feet of office space, 23 single family residential lots, 1 apartment, 7 townhomes.

with residential units used for affordable housing.

Location:

4450 Ironbound Road and 112 Magazine Road—Berkeley District

Tax Map/Parcel:

(39-1)(1-47) and (39-1)(1-47A)

Primary Service Area:

Inside

Parcel Size:

7.75 acres

Existing Zoning:

MU, Mixed Use

Comprehensive Plan:

Low-Density Residential

Surrounding Zoning:

North:

City of Williamsburg, Residential

East, South: R-2, General Residential (Ironbound Square)

West:

M-1, Limited Business (VDOT & Tewning Rd.)

Reason for DRC review:

The applicant has a requested a deviation to the approved Ironbound

Village Master Plan, dated 09/13/2000.

Staff Contact:

Karen Drake - Phone: 253-6685

STAFF RECOMMENDATION

At its February 28, 2001 meeting, the Development Review Committee approved the first deviation to the Ironbound Village approved master plan that resulted in the seven townhouses being joined into one building, instead of two groups. The applicant has now submitted the attached site plan that exchanges the location of the townhouses and one commercial building that contains the apartment. Additionally, the townhouses are again separated into two groups (three units and four units) and are spaced so there is the future possibility of expanding the Ironbound Village development to the South. The total number of townhouses and office space is not changed by the proposed relocation. Agency comments are attached for your reference.

Staff recommends approval of this minor deviation to the Ironbound Village Master Plan for "it does not significantly alter the character of land uses or other features or conflict with any conditions placed on the approval of the rezoning."

> Karen Drake Senior Planner

Atachments:

- 1. Site Plan (separate)
- 2. Applicant Letter
- 3. Agency Comments

SP-81-02. Ironbound Village Site Plan Amendment Agency Comments

Planning

- 1. To prevent further confusion due to the multiple revisions, on the cover sheet please make the following changes:
 - a. In the title note that this is a site plan amendment and amend the February 21, 2002 date with the date plans when plans are revised.
 - b. Note that JCC Case No. SP-29-01 is the original site plan number
 - c. Note that the first site plan amendment was JCC Case No. SP65-02.
 - d. Note that this site plan amendment is the second site plan amendment is JCC Case No. SP-81-02 and replaces all previously approved site plans.
 - e. On the title block on the cover sheet, note the date the plans were revised per the owner's request.
- 2. In addition to relocating the townhouses, the townhouses were each increased in size. Please update the statistical site information on the cover sheet accordingly.
- 3. The landscaping is approved as submitted.

County Engineer

1. Please add the private street design and construction guidelines for the parking lot.

Environmental

- 1. As the cover sheet was revised since the last review and approval, the revision block and the professional seal on the cover sheet need to reflect current revision information and date as appropriate.
- Plan Information. On site and utility plan Sheet G1, label the dashed linework which
 parallels the stormwater conveyance channel leading to storm structure SS # 12. It is
 unclear if this is a utility or drainage easement.
- 3. Grading. Proposed grading (contour) labels, which were present on the previously approved plan, are missing from amended plan set C-2. Label all proposed contours associated with parking, building and perimeter yard areas for construction purposes.

Fire

1. The plans are approved as submitted.

Health

1. The plans are approved as submitted.

JCSA

Plans will be forwarded when available.

VDOT

1. The plans are approved as submitted

Larry S. Barry, P.E., President Norman H. Mason, L.S., VP Vaughn B. Rinner, C.L.A. Elizabeth J. Anderson, P.E. Kenneth A. Dierks Robert P. Kerr, R.E.P., P.W.S. Clayton E. Massey, P.E.



Charles R. Orsborne, L.S. Stephen A. Romeo, L.S. Kenneth E. Rodman, Jr., P.E. Mark W. Strickland, P.E. William R. Turner, Jr., A.I.C.P. A. Gary Webb, P.E.

June 11, 2002

Ms. Karen Drake Planner James City County P.O. Box 8784 Williamsburg, VA 23187-8784

Re: Ironbound Village Site Plan Amendment (Phase II)

SP-065-02

LMDG File No. 2001112-000.10

Dear Ms. Drake:

We are pleased to submit, for approval, a plan amendment for the above referenced project. These sheets have been revised as follows:

- 1. The townhomes have been broken into two (2) groups, as was done on the original master plan. In addition, the location of Office Building 2 and one (1) of the groups of townhomes has been switched.
- 2. Water and sewer service, grading and landscaping have been adjusted to accommodate the above change.

These are the only changes that have been made to these plans. Enclosed are twelve (12) full sets of the plans for your use. Should you have any questions, comments or require any additional information, please do not hesitate to contact us.

Best regards,

The LandMark Design Group, Inc.

Charles J. Bodnar, P.E.

Associate

Copy: File 2001112-000.10

Rob Turlington, Cutting Edge Development

Engineers • Planners • Surveyors • Landscape Architects • Envi

DEVELOPMENT REVIEW COMMITTEE ACTION REPORT Meeting of July 31, 2002

Case No. C-87-02 1 Drammen Court Septic System Waiver Request

Mr. Dave Johnson requested a waiver to allow the installation of an alternate septic system on 1 Drammen Court further identified by Tax Map #(23-4)(3-190). DRC review was necessary because the standard septic system was not approved by the State health department for this site.

DRC Action: The DRC recommended approval by a vote of 2-0.

Case No. SP-81-02 Ironbound Village Master Plan Amendment

Mr. C.J. Bodnar of Landmark Design Group requested a deviation from the approved Ironbound Village Master Plan located at 4450 Ironbound Road and 112 Magazine Road which can be further identified by Tax Map #(39-1)(1-47) and (39-1)(1-47A). The request is to switch the location of the townhomes with the commercial building that contains apartments. The total units/ office space remains unchanged by the switch.

DRC Action: The DRC deferred action on this case until Monday, August 5.

JAMES CITY COUNTY

DEVELOPMENT REVIEW COMMITTEE REPORT

FROM:

7/1/2002

THROUGH:

7/31/2002

I. SITE PLANS

A. PENDING	PRELIMINARY APPROVAL	
SP-144-98	Williamsburg Pottery Warehouse/Retail Building	
SP-116-99	New Town, Wmbg./JCC Courthouse SP Amendment	
SP-051-01	Zooms Gas Station	
SP-087-01	The Vineyards Phs. 3 at Jockey's Neck	
SP-089-01	Ewell Station Storm Water Management Fac. Mod.	
SP-100-01	Williamsburg Crossing Frontage Road	
SP-109-01	Monticello Avenue Extended - SP Amendment	
SP-116-01	Powhatan Secondary - Ph. 7, Sanitary Sewer Ext.	
SP-121-01	Frances S Rees Subdivision Utility Additions	
SP-003-02	New Zion Baptist Church-addition & parking lot exp	
SP-007-02	Season's Trace - Winter Park Section 2	
SP-009-02	Hairworks Beauty Salon Parking Space Addition	
SP-019-02	Williamsburg Plantation Sec 9,10,11 Units 184-251	
SP-020-02	Charlie's Antiques Expansion/Storage Site	
SP-027-02	120' Stealth Tower3900 John Tyler Highway	
SP-045-02	Powhatan Plantation Maintenance Bldg SP Amend	
SP-050-02	New Town Sec 2 & 4 - Road/Utility Infrastructure	
SP-057-02	Colonial Heritage/US Home Richmond Rd Improvements	
SP-061-02	Powhatan Plantation Recreation Bldg Amd	
SP-066-02	Grace Covenant Presbyterian Church	
SP-067-02	Powhatan Place Townhomes Amendment	
SP-071-02	Voice Stream Tower- Exit 231 off I-64	
SP-081-02	Ironbound Village SP Amendment (Phase II)	
SP-084-02	Colonial Heritage/US Homes Phase 1, Section 1	
SP-088-02	Colonial Heritage/US Homes Phase 1 Section 2	
SP-089-02	Verizon Building Concrete Pad Addition	
SP-091-02	District Park Sports Complex, Phase III	
SP-093-02	Peanut Shop Sewer Modification	
SP-094-02	Energy Services Group Metal Fabrication Shop	
SP-095-02	Faith Fellowship Assembly of God	
B. PENDING	FINAL APPROVAL	EXPIRE DATE
SP-063-01	Williamsburg - Jamestown Airport, Apron Expansion	3/21/2003
SP-085-01	Greensprings Apartments and Condominiums	11/5/2002
SP-105-01	Voice Stream Wireless - Regional Jail Co-Location	11/9/2002
SP-110-01	Williamsburg Christian Academy	12/3/2002

SP-127-01	Avid Medical Expansion	2/4/2003
SP-128-01	JCC Government Center- Registrar & Mapping Trailer	1/7/2003
SP-002-02	Williamsburg-Jamestown Airport Hangar Additions	2/8/2003
SP-006-02	Johnston Medical Clinic	4/19/2003
SP-017-02	Williamsburg Landing	4/5/2003
SP-025-02	Monticello Interceptor Forcemain - Section A	4/8/2003
SP-035-02	Jamestown 4-H Educational Center	4/24/2003
SP-036-02	McKinley Office Building	5/6/2003
SP-037 - 02	Williamsburg Crossing Lot 11 Retail/Office Bldg	6/3/2003
SP-044 - 02	Ford's Colony, Sect. 31, BMP #1 Regrading Plan	5/8/2003
SP-048-02	New Town Office Building	6/3/2003
SP-049-02	SunTrust Office Building	6/3/2003
SP-051-02	Landmark Auto Parts	5/6/2003
SP-052-02	Villages at Powhatan Phase 5 SP Amendment	5/16/2003
SP-059-02	Villages at Powhatan - Ph. 3 & 4, SP Amendment	5/28/2003
SP-060-02	Villages at Powhatan SP Amd Phs 6 & 7	5/30/2003
SP-062-02	WindsorMeade Way Road Construction Plan	6/4/2003
SP-072-02	JCSA Water Treatment Facility, Site Prep. Plan	6/28/2003
SP-074-02	Smoke House Restaurant- Busch Gardens	6/13/2003
SP-075-02	US Home/Colonial Heritage Blvd, Phs 1	6/27/2003
SP-076-02	Future Church Parcel- Powhatan Secondary	7/9/2003
SP-078-02	Smith Memorial Baptist Church-Family Life Center	6/17/2003
SP-092-02	Stonehouse Hillcrest- Amended Utility Plan	7/25/2003
C. FINAL APP	ROVAL	DATE
SP-014-02	Marketplace Shoppes, Ph 3, Village Service Station	7/3/2002
SP-016-02	JCC District Park Entrance Road - Hotwater Coles	7/12/2002
SP-023-02	JCSA/NNWW Interconnection	7/11/2002
SP-046-02	Gallery Shoppes Concrete Pad Addition	7/2/2002
SP-064-02	JCSA Route 199 Water Storage Tank Drainage Line	7/9/2002
SP-079-02	Noah's Ark Veterinary Hospital Shed Replacment	7/9/2002
SP-080-02	Anheuser-Busch Brewery - Control Room	7/18/2002
SP-083-02	JCC Fire Station #3 Shed Addition	7/23/2002
SP-085-02	Jamestown High School Irrigation Well	7/18/2002
SP-086-02	Stonehouse Elementary School Irrigation Well	7/18/2002
SP-090-02	Prime Outlets/LL Bean Concrete Pad Addition	7/10/2002
D. EXPIRED		EXPIRE DATE
SP-002-01	JCC HSC Parking Area Expansion	3/5/2002

II. SUBDIVISION PLANS

	OTOTAL LAND
	PRELIMINARY APPROVAL
S-062-98	Ball Metal Conservation Easement
S-104-98	Skiffes Creek Indus. Park, VA Trusses, Lots 1,2,4
S-013-99	JCSA Mission Bank ROW Acquisition
S-074-99	Longhill Station, Section 2B
S-086-99	Peleg's Point, Section 5
S-110-99	George White & City of Newport News BLA
S-006-00	Ewell Station, Lots 1, 4 & 5
S-091-00	Greensprings West, Plat of Subdv Parcel A&B
S-103-00	Villages at Powhatan - Powhatan Secondary
S-032-01	Subdivision and BLE Plat of New Town AssociatesLLC
S-055-01	White Oaks - Albert & Miriam Saguto, BLA
S-073-01	Fernbrook, JCSA Pump Station/Gabrowski BLA
S-077-01	Ford's Colony - Section 32 (Lots 72-78, 93-129)
S-093-01	Olde Towne Timeshares Conservation Easement Plat
S-099-01	Stonehouse, Mill Pond, Sect. 7-A, Ph. 1
S-102-01	Powhatan Place Townhomes-BLA Lots 51-56
S-109-01	Landfall at Jamestown, Phase 5
S-008-02	James F. & Celia Ann Cowles Subdivision
\$-023-02	Stonehouse, Mill Pond Run right-of-way
S-031-02	Bruce's Super Body Shop, Lot 2 subdivision
S-034-02	Villages at Powhatan, Ph. 3
S-035-02	Villages at Powhatan, Ph. 4
S-051-02	Ford's Colony, Section 12 Construction Plans
S-052-02	The RetreatFence Amendment
S-054-02	Ford's Colony Section XXX Lots 17-56
S-057-02	Colonial Heritage/US Homes Phs 1, Sec 1 Const Plan
S-058-02	Hazelwood Subdivison and BLA
S-060-02	Parcel 1, New Town Associates LLC
S-061-02	Stonehouse, Walnut Creek Section 5B, Lot 5 BLA
S-063-02	Colonial Heritage/US Homes Phs 1, Sec 2 Const Plan
S-064-02	Stonehouse - Mill Pond Run Section 2
S-065-02	Vernon Ross BLA & BLE
S-066-02	Villages at Westminster BLE
S-067-02	Powhatan Secondary Phase VI-B plat
S-068-02	Forrest Lee Hazelwood BLA
S-069-02	Cooprider/ Powell BLA
S-070-02	Donner BLE
S-071-02	Stonehouse Commerce Park- ROW extension & realign
S-072 - 02	White BLE

B. PENDING	FINAL APPROVAL	EXPIRE DATE
S-036-01	Ironbound Village Construction Plans	8/7/2002
S-101-01	Greensprings West, Phase 4A	12/5/2002
S-104-01	The Retreat, Phase I, Section III	5/30/2003
S-022-02	George W. Roper & Jeanne F Roper, Parcel B	3/19/2003
S-024-02	Stonehouse, Fieldstone Parkway right-of-way & BLA	3/19/2003
S-027 - 02	Stonehouse, Lisburn, Sect. 5-A, Construction Plans	5/6/2003
\$-030-02	Waterford at Powhatan Sec., Ph. 33, BLA	4/9/2003
S-036-02	Zsoldos Subdivision	4/9/2003
S-037 - 02	Village Housing at the Vineyards, Phase III	5/10/2003
S-039-02	Powhatan Secondary, Phase 6-C	5/8/2003
S-042-02	Lake Powell Forest Phase 4	5/23/2003
S-044-02	Ironbound Village plat	5/17/2003
S-045-02	The Pointe at Jamestown Section 2-A plat	5/30/2003
S-050-02	Parcel 3, Ironbound Village Phase II	6/13/2003
C. FINAL AP	PROVAL	DATE
C. FINAL AF	- NOVAL	DATE
S-045-00	Scott's Pond, Section 2 Entrance Improvements	7/10/2002
S-045-00	Scott's Pond, Section 2 Entrance Improvements	7/10/2002
S-045-00 S-012-02	Scott's Pond, Section 2 Entrance Improvements Peterson Subdivision	7/10/2002 7/9/2002 7/1/2002
S-045-00 S-012-02 S-046-02	Scott's Pond, Section 2 Entrance Improvements Peterson Subdivision Winter Park Prcl 2 division & BLA Prcl 1 Lot 37	7/10/2002 7/9/2002 7/1/2002 7/15/2002
S-045-00 S-012-02 S-046-02 S-047-02	Scott's Pond, Section 2 Entrance Improvements Peterson Subdivision Winter Park Prcl 2 division & BLA Prcl 1 Lot 37 Marketplace Shoppes, Parcel 3 & 4	7/10/2002 7/9/2002 7/1/2002 7/15/2002 7/3/2002
S-045-00 S-012-02 S-046-02 S-047-02 S-053-02	Scott's Pond, Section 2 Entrance Improvements Peterson Subdivision Winter Park Prcl 2 division & BLA Prcl 1 Lot 37 Marketplace Shoppes, Parcel 3 & 4 Austin BLE - JCSA Well Lot/Ford's Colony	7/10/2002 7/9/2002 7/1/2002 7/15/2002 7/3/2002 7/2/2002
S-045-00 S-012-02 S-046-02 S-047-02 S-053-02 S-059-02	Scott's Pond, Section 2 Entrance Improvements Peterson Subdivision Winter Park Prcl 2 division & BLA Prcl 1 Lot 37 Marketplace Shoppes, Parcel 3 & 4 Austin BLE - JCSA Well Lot/Ford's Colony Mount Gilead/Washington BLA	7/10/2002 7/9/2002 7/1/2002 7/15/2002 7/3/2002 7/2/2002
S-045-00 S-012-02 S-046-02 S-047-02 S-053-02 S-059-02 S-062-02	Scott's Pond, Section 2 Entrance Improvements Peterson Subdivision Winter Park Prcl 2 division & BLA Prcl 1 Lot 37 Marketplace Shoppes, Parcel 3 & 4 Austin BLE - JCSA Well Lot/Ford's Colony Mount Gilead/Washington BLA	7/10/2002 7/9/2002 7/1/2002 7/15/2002 7/3/2002 7/2/2002 7/2/2002 EXPIRE DATE
S-045-00 S-012-02 S-046-02 S-047-02 S-053-02 S-059-02 S-062-02 D. EXPIRED	Scott's Pond, Section 2 Entrance Improvements Peterson Subdivision Winter Park Prcl 2 division & BLA Prcl 1 Lot 37 Marketplace Shoppes, Parcel 3 & 4 Austin BLE - JCSA Well Lot/Ford's Colony Mount Gilead/Washington BLA Heritage Landing Lots 9, 10 & 11 BLA	7/10/2002 7/9/2002 7/1/2002 7/15/2002 7/3/2002 7/2/2002 7/2/2002 EXPIRE DATE
S-045-00 S-012-02 S-046-02 S-047-02 S-053-02 S-059-02 S-062-02 D. EXPIRED	Scott's Pond, Section 2 Entrance Improvements Peterson Subdivision Winter Park Prcl 2 division & BLA Prcl 1 Lot 37 Marketplace Shoppes, Parcel 3 & 4 Austin BLE - JCSA Well Lot/Ford's Colony Mount Gilead/Washington BLA Heritage Landing Lots 9, 10 & 11 BLA Landfall at Jamestown, Phase V Construction Plans	7/10/2002 7/9/2002 7/1/2002 7/15/2002 7/3/2002 7/2/2002 7/2/2002 EXPIRE DATE 4/23/1999 6/5/2002
S-045-00 S-012-02 S-046-02 S-047-02 S-053-02 S-059-02 S-062-02 D. EXPIRED S-077-97 S-034-00	Scott's Pond, Section 2 Entrance Improvements Peterson Subdivision Winter Park Prcl 2 division & BLA Prcl 1 Lot 37 Marketplace Shoppes, Parcel 3 & 4 Austin BLE - JCSA Well Lot/Ford's Colony Mount Gilead/Washington BLA Heritage Landing Lots 9, 10 & 11 BLA Landfall at Jamestown, Phase V Construction Plans The Pointe at Jamestown, Phase 2	7/10/2002 7/9/2002 7/1/2002 7/15/2002 7/3/2002 7/2/2002 7/2/2002 EXPIRE DATE 4/23/1999 6/5/2002
S-045-00 S-012-02 S-046-02 S-047-02 S-053-02 S-059-02 S-062-02 D. EXPIRED S-077-97 S-034-00 S-040-00	Scott's Pond, Section 2 Entrance Improvements Peterson Subdivision Winter Park Prcl 2 division & BLA Prcl 1 Lot 37 Marketplace Shoppes, Parcel 3 & 4 Austin BLE - JCSA Well Lot/Ford's Colony Mount Gilead/Washington BLA Heritage Landing Lots 9, 10 & 11 BLA Landfall at Jamestown, Phase V Construction Plans The Pointe at Jamestown, Phase 2 Westmoreland Sections 3 & 4	7/10/2002 7/9/2002 7/1/2002 7/15/2002 7/3/2002 7/2/2002 7/2/2002 EXPIRE DATE 4/23/1999 6/5/2002 7/5/2002

AGENDA

DEVELOPMENT REVIEW COMMITTEE

July 31, 2002

4:00 p.m.

JAMES CITY COUNTY GOVERNMENT COMPLEX

Conference Room, Building E

- 1. Roll Call
- 2. Minutes
 - A. Meeting of June 26, 2002
 - B. Meeting of July 1, 2002
- 3. Cases
 - A. C-87-02, 1 Dramman Court Septic System Waiver
 - B. SP-81-02, Ironbound Village Site Plan Amendment
- 4. Adjournment