

MAR 08 2012

# HARRIS COUNTY

#### HARRIS COUNTY PUBLIC INFRASTRUCTURE ENGINEERING DIVISION - PERMIT OFFICE 10555 NORTHWEST FREEWAY - SUITE 146 HOUSTON, TEXAS 77092-8620 (713) 956-3000

REVISED RULES OF HARRIS COUNTY, TEXA	S FOR ON-SITE SEWERAGE FACILITIES
APPLICATION FOR SERVIT (Complete All Sections)	
TO THE HARRIS COUNTY ENGINEER: The undersigned applicant (property owner) hereby makes application for a per of Harris County, Texas as required by REVISED RULES OF HARRIS COUNT	
PROPERTY OWNERS NAME: Oan VO	
CURRENT MAILING ADDRESS: 8819 Rolling Rapids Rd. CONSTRUCTION SITE ADDRESS: 17616 Moss Forest dr	CITY: Humble STATE: TX ZIP: 77346
CONSTRUCTION SITE ADDRESS: 17616 Moss Forest dr	CITY: HOUSTON STATE: TX ZIP: 77090
SUBDIVISION: Y'ME DONK COREST	SECTION:   BLOCK: E LOT: 4 RESERVE:
IF NOT A SUBDIVISION: SURVEY NAME:	ABSTRACT NO:TRACT NO:
APPLICANT IS: SOWNER LEASEE	OTHER (If other, please specify Name, Address and Phone.)
NAME:ADDRESS:	PHONE:
WATER SUPPLY:  □ PUBLIC (Name of System)	UNITY INDIVIDUAL (Existing) INDIVIDUAL (Proposed)
ENGINEER OR SANITARIAN: Engineering Plans and specifications in support of this application submitted by	
NAME: ADDRESS:	PHONE:
<ol> <li>Meters &amp; Bounds description (survey), if not in a</li> <li>Site Evaluation (1 Original)</li> <li>Plan of Site &amp; Disposal System (3 Sets - 1 Original)</li> <li>Affidavit - Notarized (1 Original)</li> <li>Acknowledgement of Testing Requirements</li> <li>Flood Insurance Rate Map with site accurately loc</li> </ol>	al & 2 Copies)
AUTHORIZATION is hereby given to Harris County, Texas, the Texas Commiss to their agents, or designees, singularly or jointly, to enter upon the above described sewerage facilities, or for any reason consistent with the water quality programment of Health. I also acknowledge that INSPECTION OF THE SEWEL COVERED. TO REQUEST INSPECTION, A TWENTY-FOUR (24) HOUR ADVAINTY (713) 956-3035.	ribed property during daylight hours for the purpose of inspecting the on-site ram of the Texas Commission on Environmental Quality and the Texas RAGE SYSTEM IS REQUIRED PRIOR TO ALL COMPONENTS BEING
OWNER'S GNATURE PRINTED OWNE	R'S NAME DATE
FOR COUNTY U	JSE ONLY —
MINIMUM TANK SIZE: 1000 GALLONS MINIMUM ABSORPTION	270/
^ 7	GE OF BUILDING: 2000 SQ FT CT: 536, 2/
	SOIL CLASSIFICATION:
FLOOD PLAIN STATUS: (A) B F SPECIAL REQUIREMENT	
FLOOD PLAIN STATUS: (A) B F DEV. PERMIT#	08SF PERMIT#
	2 0 0010
PLANCHECKER PLANCHECKER PROVED BY	DATE 3-8-20/2

PPROVED BY\_

DATE\_

27441 Wigwam Trail Hockley, TX. 77447 936-931-9556

# ON-SITE WASTEWATER SYSTEM CHECK LIST

The following information must be included with all design packages for review by the Texas Commission on Environmental Quality and/or the permitting Authority. Failure to include or address all of the following items may result in approval delays.

- Plans and reports must bear a signature address, telephone number and a dated seal on each page.
- □ A report must be included in the submittal containing the following information:

Basis of design

Soil analysis and site evaluation

System flow diagram and sizing calculations

Material specifications and illustrations

Size and model number of approved aerobic system (if used)

- Construction drawings must include the following information:
  - A scaled, legible site plan with boundary description
  - The location of all buildings & structures (existing or proposed)
  - The location of the wastewater treatment units and disposal area
  - o Buffer zones and water wells must be identified and located on the site plan.
  - The site plan must also include topographical contours for slopes greater than 30 percent.
  - Easements and bodies of water (lakes, streams, ponds) must also be identified.
  - Installation details such as septic tank configuration, layouts, and cross-sections of drain fields and disposal beds, irrigation systems, pump station including piping and controls.
  - Affidavit to the Public for surface application systems recorded by the county.
  - Records of testing and frequency for surface applications.

HOME/BUSINESS OWNER	VO RESIDENCE	COUNTY	HARRIS
STREET ADDRESS	17616MOSS FOREST DR	ACREAGE/LOT SIZE	.322
SURVEY		ABSTRACT	
SUBDIVISION	PINE OAK FOREST	SECTION	1
BLOCK	E	LOT	4

DATE ON SITE	1-4-11	WATER SUPPLY	PROPOSED WELL
RESIDENTIAL	X	COMMERCIAL	
BEDROOM HOME	3/2	TYPE OF FACILITY	
LIVING AREA	2000/1064	SQUARE FEET	
PERMENANT RESIDENTS	3/3	EMPLOYEES	

#### SYSTEM TYPE

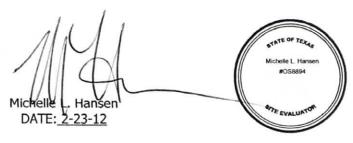
STANDARD PVC	GRAVEL-LESS PIPE		LPD	
SURFACE APPLICATION	DRIP EMITTER	X	OTHER	

#### SYSTEM PERMITTED FOR: 420 GPD

This septic system was designed based on the above data and any discrepancies should be discussed with <u>Michelle Hansen</u> prior to installation of the system. **Any change to the design may require a redraw fee.** HFF Productions, nor its employees, will be held liable for any system malfunctions.

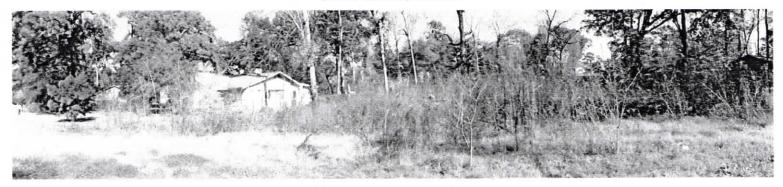


Registered Sanitarian #3769



27441 Wigwam Trail Hockley, TX. 77447 936-931-9556

# SITE EVALUATION



## **FLOOD HAZARD**

OUTSIDE 100 YEAR FLOOD PLAIN	X
PARTIALLY IN THE 100 YEAR FLOOD PLAIN	
IN 100 YEAR FLOOD PLAIN	
IN 100-YEAR FLOOD PLAIN AND FLOOD WAY	
FIRM PANEL #	48201C0265L

## WATER SUPPLY

COMMUNITY		COMPANY	
WATER WELL	X	DRILLER	PROPOSED WELL
YEAR DRILLED	2012		
DEPTH	UNKN	DIST FROM DISPOSAL AREA	50'+
SIZE	UNKN	PRESSURE CEMENTED	YES

ALL WELL REQUIRED DISTANCES MUST BE MAINTAINED IF NEIGHBORING WELLS EXIST THEY MUST BE SHOWN

# **TOPOGRAPHY**

SLOPE	
FLAT >2%	X
SLIGHT<6%	
SEVERE>30%	
VEGETATION	
GRASS/BRUSH	
LIGHTLY WOODED	X
HEAVILY WOODED	
DRAINAGE	
POOR	
ADEQUATE	X
GOOD	

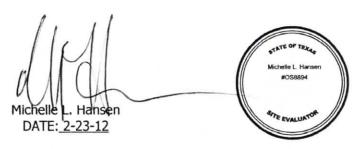
# LANDSCAPE PLAN

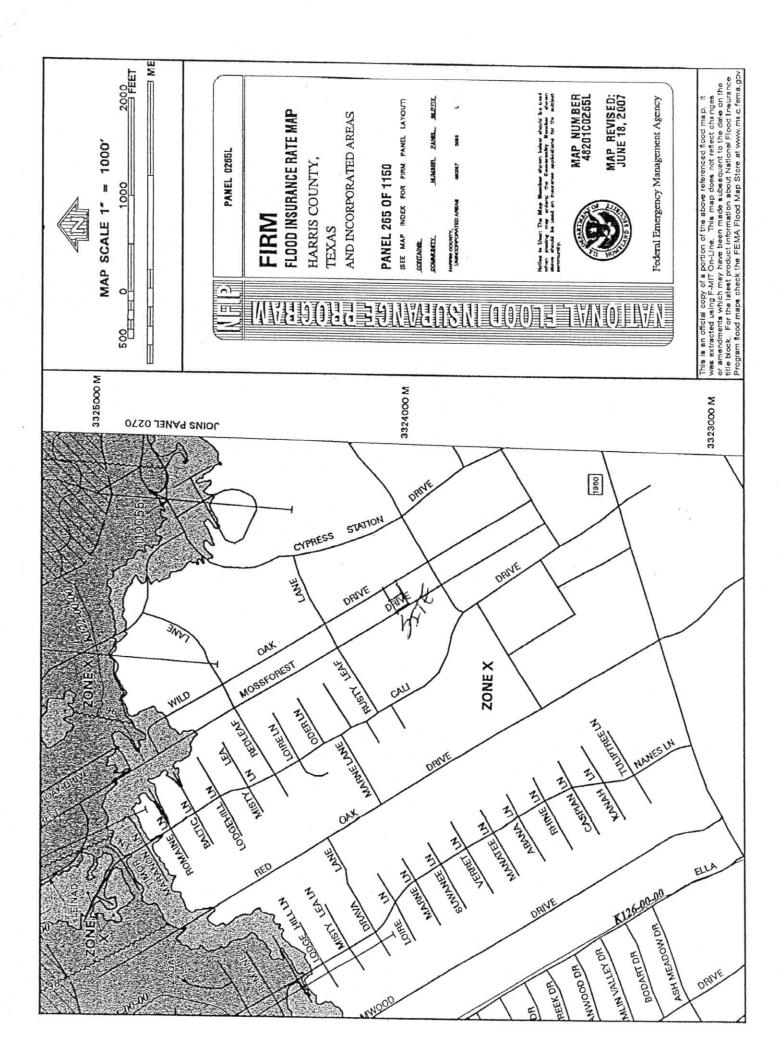
# For VO RESIDENCE at 17616 MOSS FOREST DR

Homeowner will maintain existing vegetation and/or seed or sod any bare areas irrigated by the aerobic system at all times. Do not plant any shade trees in this area. Settling of the backfill will occur over time. Owner should continually check for this & fill in any low places to prevent rainfall from pooling on the surface of the drain field. Plant a dense grass or groundcover in the drain field area. Over-seed with winter grasses for absorption during dormant growing seasons. The grass should be kept mowed to allow as much sunlight as possible to reach the ground surface. This aids in the evapo-transpiration of water/wastewater & prevent soil erosion.



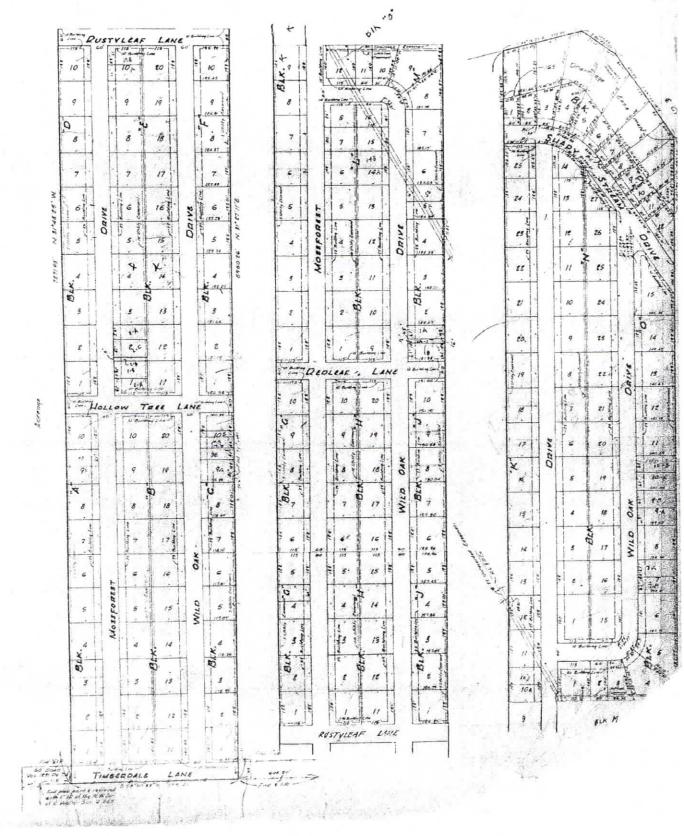
Registered Sanitarian #3769





				JAPE C.		F13	NO	S D SM	UNG.
	98.94 PATES	ZAC. D. H.	ARMON	SUR	YOL.42	M. 185		CERTIFICA	
No. 1 Vol.	TO WHOM ISSUED	1	DATE		ACREAGE	No.	CLASS	CHARACTER	1 E. WHOM IRRITED
		×	D	I Y	110100	110.	Ciatos	CHARACTER	10 MI S. 1300E

H.C. ZWINK 915/Ac W.C. BALTZELL.



HARRIS COUNTY APPRAISAL DISTRICT REAL PROPERTY ACCOUNT INFORMATION 0901180000004

Tax Year: 2011

Owner and Property Information										
		IM NG RAPIDS RD 77346-8063	"	escription: Address:	LT 4 BLK E PINE OAK FOREST SEC 1 0 MOSS FOREST DR HOUSTON TX 77090					
State Class	s Code	Land Use Code	Land Area	Total Living Area	Neighborhood	Map Facet	Key Map <sup>®</sup>			
C1 Real, Vacant	THE RESERVE OF THE PERSON OF T	1000 Residential	14,030 SF	0 SF	2216	5168B	3321			

#### **Value Status Information**

Capped Account	Value Status	Notice Date	Shared CAD
No	Noticed	04/15/2011	No

**Exemptions and Jurisdictions** 

Exemption Type	Districts	Jurisdictions	ARB Status	2010 Rate	2011 Rate
None	024	SPRING ISD	Certified: 08/12/2011	1.460000	1.570000
	040	HARRIS COUNTY	Certified: 08/12/2011	0.388050	0.391170
	041 HARRIS CO FLOOD CNTRL		Certified: 08/12/2011	0.029230	0.028090
	042 PORT OF HOUSTON		Certified: 08/12/2011	0.020540	0.018560
	043	HARRIS CO HOSP DIST	Certified: 08/12/2011	0.192160	0.192160
	044 HARRIS CO EDUC DEPT		Certified: 08/12/2011	0.006581	0.006581
	045	LONE STAR COLLEGE SYS	Certified: 08/12/2011	0.117600	0.121000
	637	HC EMERG SRV DIST 28	Certified: 08/12/2011	0.100000	0.100000
	666	HC EMERG SERV DIST 11	Certified: 08/12/2011	0.030000	0.030000

#### **Valuations**

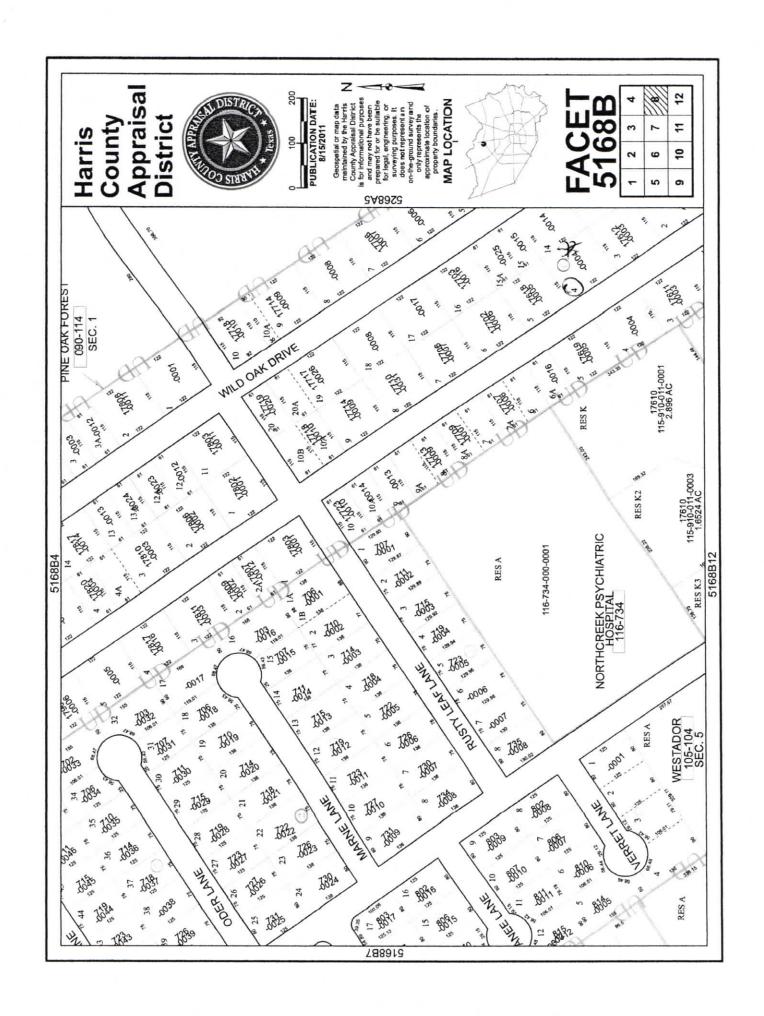
Value as of January 1, 2010			Value a	as of January 1, 2011	
	Market	Appraised		Market	Appraised
Land	29,000		Land	29,000	
Improvement	0		Improvement	0	
Total	29,000	29,000	Total	29,000	29,000

#### Land

	Market Value Land											
Line	Description	Site Code	Unit Type	Units	Size Factor	Site Factor	Appr O/R Factor	Appr O/R Reason	Total Adj	Unit Price	Adj Unit Price	Value
1	1000 Res Vacant Table Value	SF5	SF	7,015	1.00	1.00	1.00		1.00	2.85	2.85	19,993
2	1000 Res Vacant Table Value	SF5	SF	7,015	1.00	1.00	1.00		1.00	2.85	2.85	19,993

# **Building**

Vacant (No Building Data)



27441 Wigwam Trail Hockley, TX. 77447 936-931-9556

# **SOIL EVALUATION**

PROFILE DEPTH	TEXTURE (USDA)	GRAVEL ANALYSIS (CLASS II & III)	RESTRICTIVE HORIZON	GROUND WATER	COLOR	COMMENTS
0-32"	SANDY LOAM	0	NO	28"	BROWN	
32-34"	SANDY CLAY LOAM	0	NO		BROWN	
34-48"	CLAY LOAM	0	NO		BROWN	

PROFILE DEPTH	TEXTURE (USDA)	GRAVEL ANALYSIS (CLASS II & III)	RESTRICTIVE HORIZON	GROUND WATER	COLOR	COMMENTS
0-33"	SANDY LOAM	0	NO	30"	BROWN	
33-36"	SANDY CLAY LOAM	0	NO		BROWN	
36-48"	CLAY LOAM	0	NO		BROWN	

Normal textures (USDA): Coarse sand/gravel/sand/loamy sand/sandy loam/loam/ sandy clay loam/sandy clay/clay loam/silty clay loam/silty loam/silty or clay/silty clay

Subsurface horizons with colors of red, yellow, and brown generally indicate good soil aeration and drainage throughout the year. Subsurface horizons that are in colors of gray, olive or blackish colors indicate poor aeration and poor soil drainage. Any soil profile that has the grayish colors indicative of high-water (or mottling) within thirty-six (36) inches of the surface or has ground water visible in the test bore less than forty-eight (48) inches below the ground surface shall be deemed unsuitable for a conventional subsurface disposal due to internal drainage.

X	SOIL TEXTURE	SOIL CLASS	LONG TERM LOADING RATE
	COARSE SAND/GRAVEL	Ia	>.50
	SAND/LOAM SAND	Ib	0.38
	SANDY LOAM/LOAM	II	0.25
X	SANDY CLAY/ SANDY CLAY LOAM/CLAY LOAM/SILTY CLAY LOAM/SILT	III	0.20
	CLAY/SILTY CLAY	IV	0.10

SOIL ANALYSIS	YES	NO
IS THE SOIL SUITABLE FOR A STANDARD SYSTEM		Х
INDICATION OF SEASONABLE WATER TABLE	X	
DEPTH	28"	

I, MICHELLE L. HANSEN, a Registered Sanitarian did personally conduct this site evaluation on

# 17616 MOSS FOREST DR

I certify these results are true and correct for the property evaluated.

Michelle L. Hansen

\$ 3769

Registration

Registered Sanitarian #3769

Aichelle L. Hansen
DATE: 2-23-12

<sup>☐</sup> Normal structures: Massive, Block, Platy

27441 Wigwam Trail Hockley, TX. 77447 936-931-9556

# ENGINEERING REPORT FOR ON-SITE WASTEWATER DIPOSAL SYSTEM CONDITIONS FOR A CLASS I SEWER PLANT WITH SPRINKLER SYSTEM

- > Class I sewer plant will have a chlorinator pump tank to distribute water to sprinkler field.
- > Aerobic tank will treat 1000 gal/day of septic.
- Sprinklers installed will be the pop-up type.
- Sprinklers will be on a timer.
- Water will be sprinkled in the early morning hours during the time of least traffic (between midnight and 5am.)
- Maximum inlet pressure for sprinklers shall be 40 psi.
- Low angle nozzles of 15 degrees or less shall be used.

# **DESIGN SPECIFICATION SUMMARY**

HOME/BUSINESS OWNER	VO RESIDENCE	STREET ADDRESS	17616 MOSS FOREST DR
STRUCTURE	NEW HOME W/ GARAGE APT	FACILITY TYPE	RESIDENTIAL
SOIL TYPE -CLASS	III CLAY LOAM	LOW FLOW FIXTURES	YES
LIVING AREA	2000/1064	TOTAL SQ FT	2400/2048
BEDROOMS (ACTUAL)	3/2	BEDROOMS (DESIGN)	3/2

## **ABSORPTION AREA**

GPD	420	LOADING FACTOR, GPD/SQ FT	.20
ABSORPTION AREA REQIRED, SQ FT	2100	ABSORPTION AREA SHOWN, SQ FT	2204
LINEAR FEET OF LINE	1050	ABSORPTION AREA SHOWN, L FT	1102
EMITTERS, EVERY 2 FT(4SQ FT)	525	EMITTERS SHOWN	551

#### TANK SIZING

TANK	SIZE (GAL) REQ	SIZE (GAL) TO BE INSTALLED	MODEL NAME & NUMBER
SEPTIC TRAP TANK	750	750	
CLASS I AEROBIC PLANT	1000	1000	1000N OR EQUAL
PUMP TANK	1000	1000	

# **PUMP TANK REEQUIREMENTS**

Pressure Drops in System
Elevation Head loss in system feet 4
Friction Head loss in system feet 1.2
Spray head Pressure, psi 25
Spray head pressure, feet 58
Total system head loss, feet 66

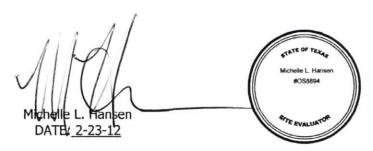
#### PUMP SELECTION

Volume, GPM 20 gal NPDH, Feet 66 Pressure, psi 29

Supply+Manifold 1.00 " Sch 40 240



Registered Sanitarian #3769



# Geoflow Subsurface Dripline Dispersal: Field Calculation

Job Description:	17616 MOSS FOREST DR
Contact:	ABREGO
Prepared by:	MICHELLE HANSEN
Date:	1/20/2012

Please fill in the shaded areas and drop down menus below:

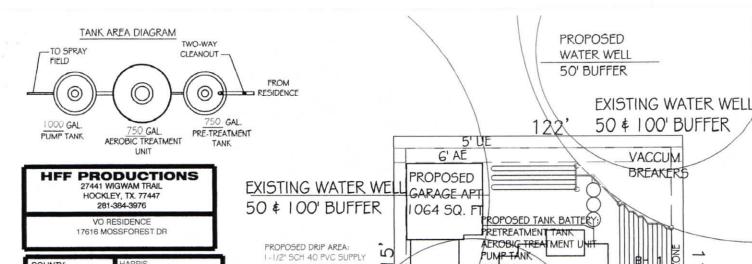
Note. This worksheet can be found in Geoflow's Design and Installation Manual

# Worksheet - Field Design

		Dispersal Fiel Single 2		Dispersal Field as Multiple Zones	
Num	ber of Zones		1	2	zone(s)
A)	Quantity of effluent to be disposed per day		120	210	gallons / day
B)	Hydraulic loading rate		0.2	0.2	gallons / sq.ft. / day
C)	Determine total area required	2,	100	1,050	square ft.
D)	Choose spacing between WASTEFLOW lines		2	2	ft.
D)	Choose spacing between WASTEFLOW emitters	2 ft.	~	2	ft.
E)	Total linear ft.	1,	050	525	each
F)	Total number of emitters	525		263	each
G)	Select Wasteflow dripline	Wasteflow PC - 1/2gph	-	Wasteflow PC 1/2 gph	dripline
H)	Pressure at the beginning of the dripfield	20 psi	•	20	psi
I)	Feet of Head at the beginning of the dripfield		46.2	46.2	ft.
J)	What is the flow rate per emitter in gph?		0.53	0.53	gallons per hour
K)	Total flow for the area (gph)	9	278	139	gallons per hour
	Total flow for the area (gpm)		4.64	2.32	gallons per minute
L)	Select pipe diameters for manifolds and submains	0.75		.5	inch
M)	Select Vortex Filter (item no.)	AP4E75F (0.75in.)		Consult factory	
N)	Maximum length of each WASTEFLOW line.  For additional technical flow, pressure and flushing data please refer to Geoflow's Design Manual		424	424	ft.
	and WASTEFLOW hydraulics worksheet.			g: :	

Check below to choose quantity and length of daily doses

Dosing		
Number of doses per day/zone:	12	12
Pump run time per dose/zone (minutes):	7.55	7.55 minutes
Pump run time per day/zone (hours):	1.51	1.51 hours /
Pump run time per day/all zones (hours):	1.51	3.02 hours



I-I/2" SCH 40 PVC SUPPLY

TOTAL ~ | 102 Linear Feet

Flex Connector

2

COUNTY ACREAGE SURVEY ABSTRACT TRACT: BLOCK BEDROOMS LIVING AREA

SLOPE:	FLAT
VEGETATION:	LIGHTLY WOODED
DRAINAGE:	ADEQUATE
FLOOD HAZARD:	OUT
FIRM PANEL #:	48201C0265L
WATER SUPPLY:	PROPOSED WELL

DATE:	1-6-11
DRAWN BY:	MLH
DESIGNED BY:	MLH
SCALE:	AS NOTED
TOTAL GPD:	420
LOADING RATE:	.20
REQUIRED DRIP LINE(LF):	1050
PROVIDED DRIP LINE(LF):	1102

THE DRIP LINE IS TO BE INSTALLED AT 6-12 BELOW NATURAL GROUND TO

PROPOSED

RESIDENCE

2000 SQ. F

MAINTAIN I' SEPARATION FROM SEASONAL SATURATION. DISPOSAL AREA SHOULD BE SLIGHTY MOUNDED TO SHED WATER \$ COVERED WITH SOD TO PREVENT WASH OUT.

T.W.C.O.

25' BI

DRIP AREA IS 1102 LF OF ALTERNATING LOOPS:

PROPOSED

WATER WEL SO'IBUFFER

2 LINES @ 70'= 140 LF

4 LINES @ 72'=288 LF

2 LINES @ 75'= 150 LF

2 LINES @ 77'= 154 LF

2 LINES @ 80'= 160 LF

6 LINES @ 35'=210 LF

TOTAL- 1102LF

RONIC MONITORING REQUIRED must be in place by the final inspection IT IS THE INSTALLER'S RESPONSIBILITY TO INSURE THAT THIS AEROBIC TREATMENT UNIT MEETS A 30-DAY AVERAGE CBOD OF 10mg/L & TSS OF 10mg/L.

S

Licens to construct and operate an on-site ewerage fa ility requires that this Department INSPECT AND APPROVE the construction of the said facility PRIOR TO COVER UP and PRIOR TO PLACING IT INTO OPERATION. Failure to comply with these requirements constitutes a Class "C" Misdemeanor CALL 955-3035 TO SCHEDULE INSPECTION

HARRIS COUNTY ENGINEERING DEPARTMENT INTERPOSES NO OBJECTIONS PROVIDED THE SYSTEM IS INSTALLED IN ACCORDANCE WITH THESE PLANS. SYSTEM DESIGNER, INSTALLER AND PROPERTY OWNER ARE RESPONSIBLE FOR PROPER SYSTEM ORERATION.

Junatura

3-8-2012

#### PROPOSED ON-SITE SEWAGE FACILITY

**EQUIPMENT SPECIFICATIONS** PRETREATMENT TANK: 750 GALLON ~ PRE-CAST CONCRETE
AEROBIC TREATMENT UNIT: 1000 GALLON ~ 1000N OR EQUAL 1000 GALLON - PRE-CAST CONCRETE PUMP TANK; SPRAYHEADS

#### TANK NOTES

- ALL EXISTING SEPTIC TANKS TO BE ABANDONNED
   TANKS NOT BUILT FOR TRAFFIC BEARING LOADS
- 3. TANKS INSTALLED IN LINE ON 90° OFFSETS

SCALE 1" = 40'

- MISCELLANEOUS NOTES
  1. MAINTAIN ALL BUFFER ZONES SHOWN ON DRAWING
- 2. PRIVATE WATER WELL MUST BE A MINIMUM OF 50 FT. FROM SEPTIC TANKS AND 100FT, FROM SPRAY FIELD UNLESS IT IS PRESSURE CEMENTED. THEN IT MUST BE 50 FT. FROM SEPTIC TANKS AND SPRAY FIELD
- BUFFER ZONE NOTES
- -SEPTIC TANKS MUST BE AT LEAST 10 FT. FROM
   ANY EASEMENT NOT SHOWN ON DRAWING.
- ~ 5' FROM ANY SLAB

#### GENERAL NOTES:

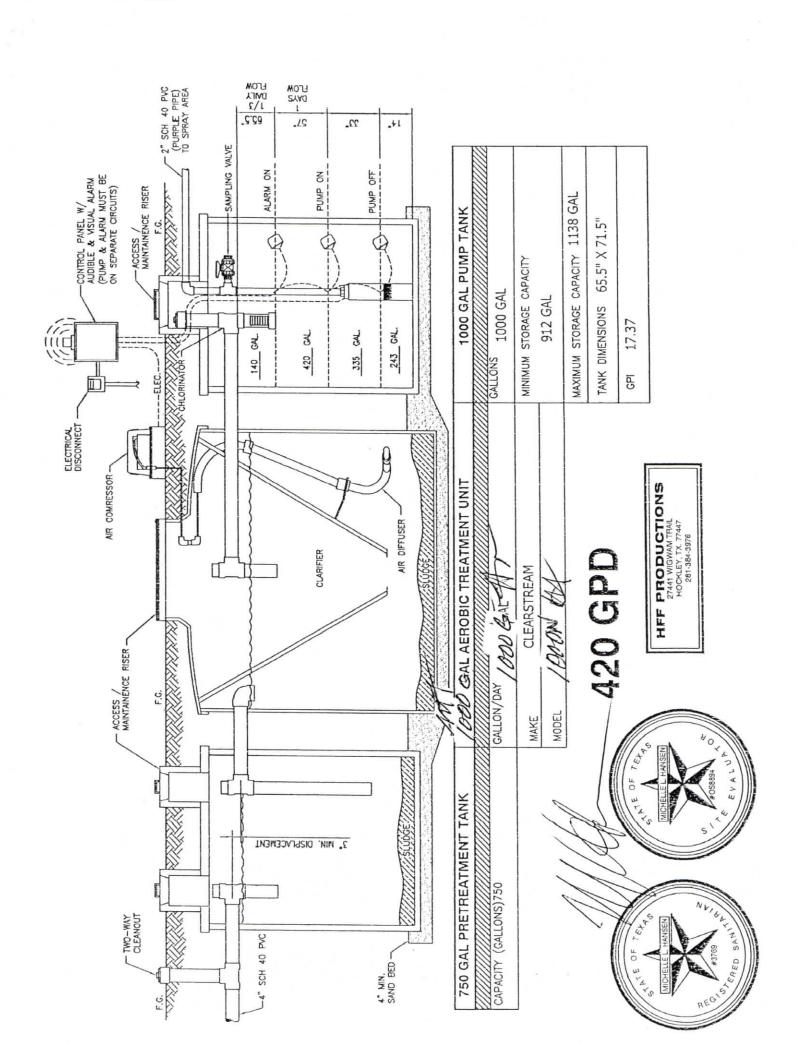
- AN ON-SITE SEWAGE LICENSE MUST BE OBTAINED PRIOR TO INSTALLING THIS WASTEWATER DISPOSAL SYSTEM
- 2. SYSTEM INSTALLATION MUST BE BY A REGISTERED INSTALLER OF ON SITE SEWAGE FACILITIES AS REQUIRED BY ARTICLE
  4477-TE OF VERNONS CIVIL STATUTES OR BY THE OWNER OF THE PROPERTY UNDER LISENCE. NO COMPONENT OF THIS
- SYSTEM SHALL BE COVERED UP WITHOUT COUNTY'S APPROVAL.

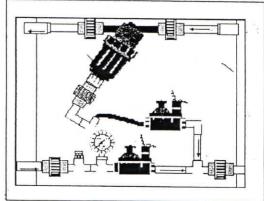
  3. IF ANY DISCREPANCIES EXIST BETWEEN THIS DESIGN AND ACTUAL FIELD CONDITIONS IT IS THE INSTALLERS RESPONSIBILITY
  TO IMMEDIATELY NOTIFY THE ENGINEER AND THE JURISDICTION PRIOR TO BEGINNING OF CONSTRUCTION.

  4. ALL CONSTRUCTION METHODS AND MATERIALS MUST BE IN ACCORDANCE WITH COUNTY AND STATE RULES AND POLICIES,
- UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS AND ARE APPROVED BY THE JURISDICTION.
  5. SITE SHALL BE CAREFULLY FINISH GRADED AFTER CONSTRUCTION OF SYSTEM IS COMPLETED, TO PROVIDE ADEQUATE STORM WATER DRAINAGE. ABSORPTION AREA SHALL BE CROWNED. DRAINAGE SWALES SHALL BE CONSTRUCTED TO ADEQUATELY CONVEY STORM WATER DRAINAGE AWAY FROM ABSORPTION AREA. HIS SYSTEM INSTALLED AND OPERATED IN ACCORDANCE WITH THIS PLAN SHALL NOT PRESENT A HAZARD TO PUBLIC HEALTH, OR THREATEN PROPOSED OR ADJACENT WATER WELLS.
- THERE SHALL BE AT LEAST ONE DAY OF DRY STORAGE VOLUME OF ONE-THIRD THE DAILY FLOW BETWEEN THE ALARM-ON LEVEL AND THE INLET TO THE PUMP TANK.
- R ALL COMPONENTS OF THE SYSTEM MUST BE INSTALLED TO FT FROM WATERLINES, ACCEPT AT BUILDING CONNECTION
- WATERLINE CROSSING MUST BE CONSTRUCTED IN ACCORDANCE WITH 30 TAC 290, 44(9)

  9. PUMP TANK FLOAT ELEVATIONS MUST BE SET IN COMPLIANCE WITH 30 TAC 285 33(d)(2)(G)(iii)(1)

  10. SPRAY HEADS TO BE NO CLOSER THAN 10' FROM TREES OR OTHER OBSTRUCTIONS THAT INTERFERE WITH SPRAY PATTERN
- 11. TIMER MUST BE SET TO DISCHARGE BETWEEN THE HOURS OF MIDNIGHT AND 5 am





Automatic Headwork

Description

Geoflow accessory parts are now available preassembled with either manual or automatic flush configurations. Each headwork box includes the following:

- Vortex filter
- · Filter flush valve
- · Zone flush valve
- Pressure gauge
- Headwork air vent
   Headwork box

Note. Air vents, dripline, and fittings are required to complete the Geoflow disposal system. Pressure regulators are required with Wasteflow Classic systems.

Flow Rates

1	Model No.	Min. Flow	Max. Flow
1	WHW-075-Aut	4 gpm	11 gpm
V	WHW-100-Aut	10 дрт	28 gpm
Z	WHW-075-Man	4 gpm	11 gpm
1.	WHW-100-Man	10 gpm	28 gpm

Pressure loss vs. Flow (Between inlet from pump & outlet to field)

Flow	WHW	WHW	WHW	WHW
(gpm)	075-Aut	100-Aut	075-man	100-man
4	3.0 psi		3.0 psi	
6	. 5.5 psi		5.5 psi	2
8	8.5 psi		8.5 psi	
10	13.0 psi	3.5 psi	13.0 psi	3.5 psi
15		7.2 psi		7.2 psi
20		12.0 psi		12.0 psi
0.5				1205

HEADWORKS

MAY USE headworks

OR internalize in pump

TANK in pump configuration

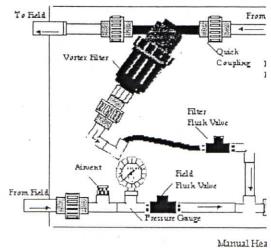
Operation
Field and filter flushing can be done manuall
or automatically.

#### . Manual Headworks

Both valves should be cracked open slightly times to allow a constant flush. Make sure p at the Headwork gauge is at least 3 psi, and i close the valves slightly to increase pressure. annually the valves need to be open fully for complete system flush.

#### . Automatic Headworks

Both valves are activated electrically. Geoflo recommends using the GEO1 or GEO2 cor to activate your pumps and Automatic Head



Manual He

Specification Please refer to individual specification sheet

