

9645 HAYING PL

13721113

9/5/08

marliwr

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = IDAutomationHC39M

Give to
LT upon
completion.

Next

$5,00

Due

CONDITIONS OF IMPROVEMENT PERMIT

Permit Number: 2492 Tax Number: 137-211-13

- The IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is NOT transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

Basement	___ Yes	✓ No	___ Partial Basement	
Type Primary Wastewater System Type (circle one): I II (III) IV V VI	___ Conventional ___ Prefabricated, permeable block panel system ___ Shallow Placed Conventional	___ Low Pressure Pipe ___ Large Diameter Pipe ___ Fill ___ Other	✓ Innovative or Experimental: ___ IWWS-93-1 ___ IWWS-93-2 ___ IWWS-94-1	
.3 Long-term acceptance rate	360 Max gallons/day wastewater flow	900' Absorption Area (sq ft)	9 Trench spacing (min. on centers)	
yes Serviced by private well	1500 Gallon septic tank	300 Total trench length (ft)	24' Maximum trench depth (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions)	
3 Bedrooms in residence	1000 Gallon pump tank	NA Depth of stone		
Any surface waters present: No Type:		Minimum separation distance:		
Site modifications required:				
Additional Conditions: agreement form on file use innovative system				

Repair Area System Type Type (circle one): I II (III) IV V VI	___ Conventional ___ Prefabricated, permeable block panel system ___ Shallow Placed Conventional	___ Low Pressure Pipe ___ Large Diameter Pipe ___ Fill ___ Other	~~✓~~ Innovative or Experimental: ___ IWWS-93-1 ___ IWWS-93-2 ___ IWWS-94-1	
900 Absorption Area (Sq ft) 300 Total Trench Length (Ft)	24" Depth of ~~Stone~~ Trench	9 Trench spacing (min. on centers)	24' Maximum Trench Depth	
For existing system, enter the year originally installed:				

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. This approval is granted in accordance with the provisions of Laws and Rules For Sewage, Treatment and Disposal in effect at the time of issuance of the permit and is subject to the following provisions:

- No work shall be conducted on the septic tank system until an Installation, Construction, Alteration and/or Repair Approval is granted by this Department
- This Improvement permit is transferable.

[signature] 11-4-96
DEHNR Authorized Agent Date

Tim Whittaker 11/13/96
Owner/Agent Signature Date

MECKLENBURG COUNTY
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR.
SUITE 211
700 N. TRYON ST.
CHARLOTTE, N.C. 28202.
(704) 336-5102

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL, HEALTH,
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

FEE: _____ **AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION**
DATE: _____ **VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE**

DATE: 11-4-96 PERMIT NO: 21442
PARCEL NO: 137-211-13

JOB LOCATION ADDRESS: 2645 Haying Place
PROPERTY OWNER: Helen Swiger
BUILDING CONTRACTOR: _____
SUBDIVISION NAME: _____
AUTHORIZATION ISSUED BY: Kelly Randall DATE: 11-4-96
DEHNR AUTHORIZED AGENT

AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 21442, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. AN INSTALLATION, CONSTRUCTION, ALTERATION AND/OR REPAIR APPROVAL MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH MECKLENBURG COUNTY HEALTH DEPARTMENT.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. OTHER CONDITIONS: agreement form on file
use innovative system type IV

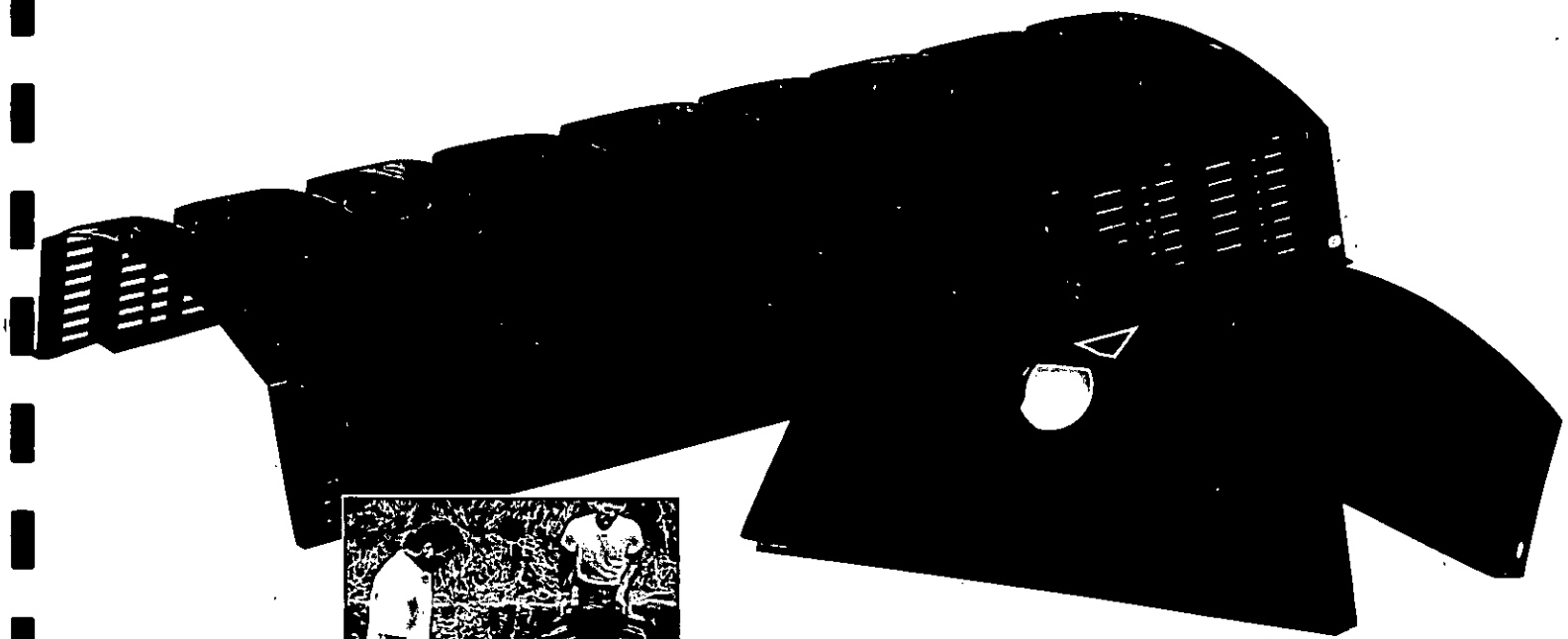
OWNER CERTIFICATION

I CERTIFY THAT THERE HAVE BEEN NO ALTERATIONS IN SITE OR SOIL CONDITIONS OR MODIFICATIONS TO FACILITY, WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS FROM THOSE SPECIFIED IN THE ORIGINAL APPLICATION OR ASSOCIATED IMPROVEMENT PERMIT UNLESS AUTHORIZED IN WRITING BY THE MECKLENBURG COUNTY HEALTH DEPARTMENT. I ALSO UNDERSTAND THAT ANY SUCH ALTERATIONS, MODIFICATIONS, OR FALSE INFORMATION ARE GROUNDS FOR REVOCATION OF PERMITS AND AUTHORIZATION TO CONSTRUCT.

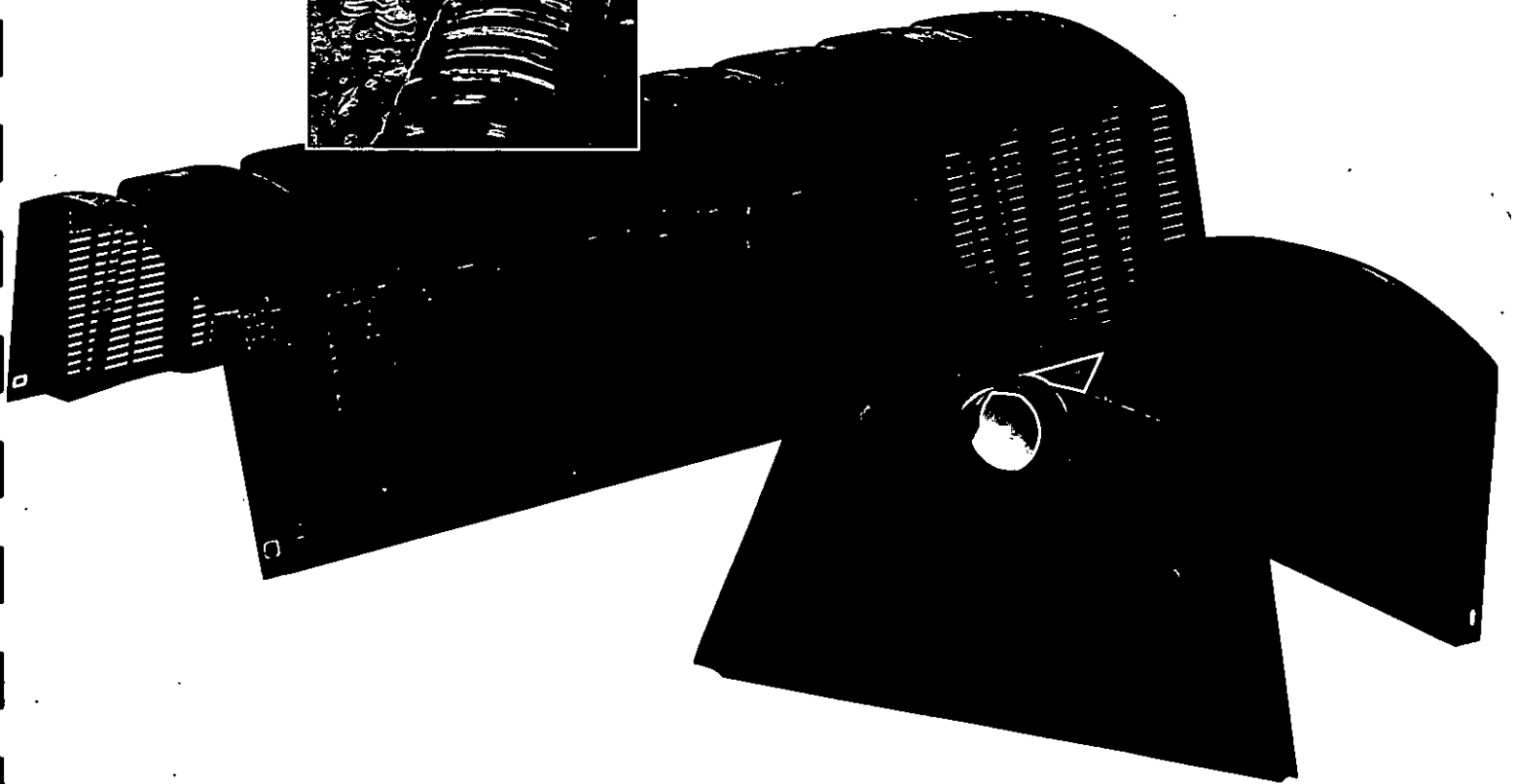
Tim W Kittaker for H.S. 11/13/96
SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE DATE

File:
21492

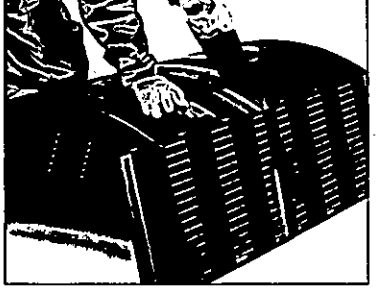
Hancor®
EnviroChamber™
Chamber Units for On-Site Systems







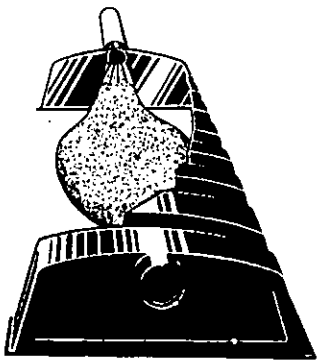
Cost-Effective Solutions



- **Two-for-One Chamber*** EnviroChamber units can be divided in two by cutting on the center line, so half-chambers can be used to complete a trench. Saves time, reduces additional excavation costs, and eliminates using more product than is necessary.
- **Snap-on EqualFlo™ End Plate** Eliminates need for screws and power tools, saving time and labor.
- **Fast and Easy Installation** Lightweight, strong high-density polyethylene means no heavy equipment is needed, and installation is faster.
- **Unique Rib Design** Strong, innovative rib design requires less backfill material, saving material and labor costs.

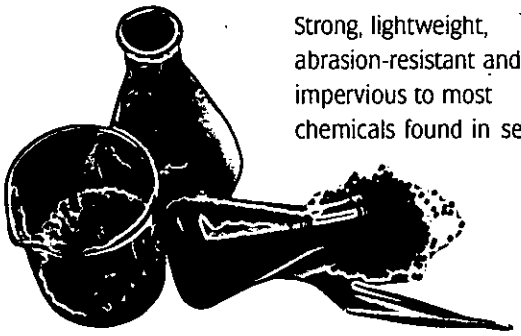
* Patent pending

Designed-In Benefits



- **New Equal Distribution System** The unique end plate design allows more equal distribution of effluent from the distribution pipe into the first chamber. The EqualFlo™ distribution end plate minimizes scouring and erosion at the inlet area.
- **H-10 or H-20 Load Rated** Meets and exceeds load requirements.
- **Chamber Design Benefits** Solid top prevents water and soil intrusion, while open bottom means no stone masking. No filter fabric is required.
- **Gravelless System** Eliminates stone masking, stone clean-up, and minimizes landscape damage. And there's no need to wait for gravel delivery trucks.
- **Unique Sidewall Design** Louvers are set at a 30° angle to help prevent soil intrusion. The end portion of the sidewall is closed off to help avoid soil intrusion through open louvers. Studies have shown that increased sidewall area enhances treatment by allowing more oxygen transfer through the soil for efficient biomat formation.

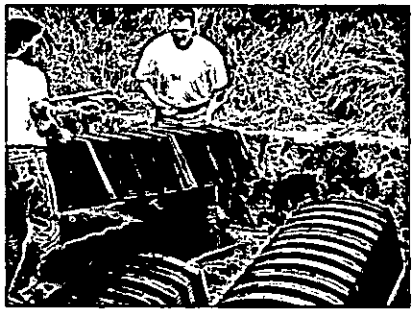
Value-Added Benefits



- **High Density Polyethylene Construction** Strong, lightweight, abrasion-resistant and impervious to most chemicals found in sewage.
- **Made of 100% Recycled Materials** Allows use of an environmentally-friendly product.
- **Five-Year Warranty** EnviroChamber units are warranted against defective materials and workmanship for **five** years.**

** See complete warranty on back for details.

Easy Steps for Installation*

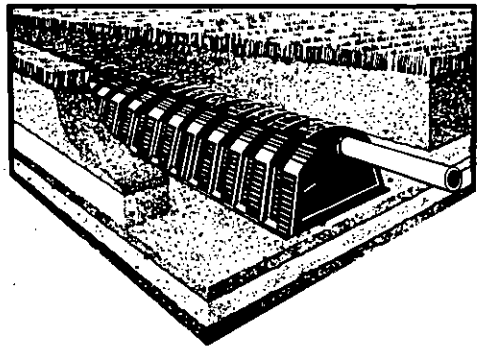


- Excavate trench to required width and depth; level surface. Clear away any large stones or roots. Scour sidewall areas, if necessary.
- Install EnviroChamber units on trench bottom and snap together
- Install end plate and distribution pipe (pipe does not extend beyond end plate).
- Complete backfill operations.

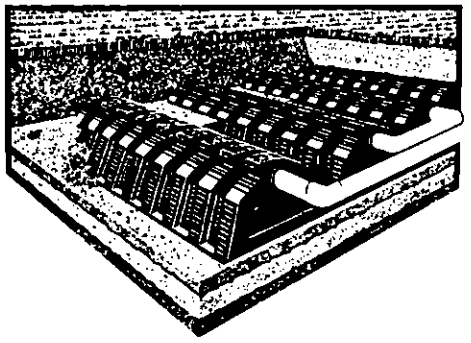
** See EnviroChamber unit Installation Instructions. This product is solely intended for the conveyance of fluids. Access into this product for maintenance, inspection, or other reason should be done in strict accordance with OSHA recommendations for confined space entry.*

System Configurations

Trench



Bed



Compare the EnviroChamberUnit Advantages

		EnviroChamber™ Unit (H-10 or H-20)	Advantage* (%)	Infiltrator™ Chamber	Bio Diffuser™ Chamber
STANDARD	Size	12"x34"x75"		12"x34"x75"	11"x34"x75"
	Sidewall	8"	+33%	6"	6.5"
	Capacity	87 gal.	+13%	77 gal.	N/A
	Invert Height	8"	+14%	7"	7.5"
HI-CAPACITY	Size	17.5"x34"x75"		16"x34"x75"	14"x34"x75"
	Sidewall	14.5"	+32%	11"	11"
	Capacity	138 gal.	+13%	122 gal.	N/A
	Invert Height	14"	+27%	11"	9"

*Compared to Infiltrator chambers

Infiltrator™ is a trademark of Infiltrator Systems Inc.
Bio Diffuser™ is a trademark of PSA, Inc.

Five Year Limited Warranty

(a) THE STRUCTURAL INTEGRITY OF EACH ENVIROCHAMBER™ UNIT, WHEN INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, IS WARRANTED TO THE ORIGINAL PURCHASER AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR FIVE YEARS FROM DATE OF MANUFACTURE. SHOULD A DEFECT APPEAR WITHIN THE WARRANTY PERIOD, PURCHASER MUST INFORM HANCOR, INC. OF THE DEFECT WITHIN FIFTEEN (15) DAYS. HANCOR, INC. WILL SUPPLY A REPLACEMENT CHAMBER. HANCOR, INC.'S LIABILITY SPECIFICALLY EXCLUDES THE COST OF REMOVAL AND/OR INSTALLATION OF THE CHAMBERS.

(b) THE WARRANTY IN SUBPARAGRAPH (a) IS EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE CHAMBERS, INCLUDING NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE WARRANTY DOES NOT EXTEND TO PUNITIVE, EXEMPLARY, INCIDENTAL, CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES. THE COMPANY SHALL NOT BE LIABLE FOR PENALTIES OR LIQUIDATED DAMAGES, INCLUDING LOSS OF PRODUCTION AND PROFITS, LABOR AND MATERIALS, OVERHEAD COSTS, OR OTHER LOSS OR EXPENSE INCURRED BY BUYER. SPECIFICALLY EXCLUDED FROM WARRANTY COVERAGE ARE: DEFECTS OR DAMAGE TO THE CHAMBERS DUE TO UNAUTHORIZED USE; ORDINARY WEAR AND TEAR; ALTERATION, ACCIDENT, MISUSE, INSTALLATION ERROR, ABUSE OR NEGLECT OF THE CHAMBERS; THE CHAMBERS BEING SUBJECTED TO STRESSES GREATER THAN THOSE PRESCRIBED IN THE INSTALLATION INSTRUCTIONS; THE PLACEMENT BY BUYER OF IMPROPER MATERIALS INTO BUYER'S SYSTEM; OR ANY OTHER EVENT NOT CAUSED BY THE COMPANY.

FURTHERMORE, IN NO EVENT SHALL THE COMPANY BE RESPONSIBLE FOR ANY LOSS OR DAMAGE TO THE BUYER, THE CHAMBERS OR ANY THIRD PARTY RESULTING FROM ITS INSTALLATION OR SHIPMENT. BUYER SHALL BE SOLELY RESPONSIBLE FOR ENSURING THAT INSTALLATION OF THE SYSTEM IS COMPLETED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, RULES AND REGULATIONS.

(c) NO REPRESENTATIVE OF THE COMPANY HAS THE AUTHORITY TO CHANGE THIS WARRANTY IN ANY MANNER WHATSOEVER, OR TO EXTEND THIS WARRANTY. NO WARRANTY APPLIES TO ANY PARTY OTHER THAN TO THE ORIGINAL BUYER.

Hancor ... Offering a Full Line of Products for On-Site Waste Management

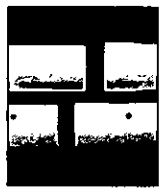

Sewage Ejector Sumps


Norwesco™ Septic Tanks

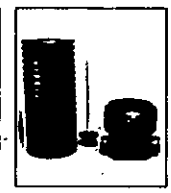

Gravelless Pipe


Distribution Sumps


Distribution Boxes


Co-Extruded Smoothwall Sewer & Drain Pipe


Smoothwall Fittings


Alternator Valves

For Distributor's Use:

Hancor®

Technology • Innovation • Solutions™

Hancor, Inc. 401 Olive St. Findlay, Ohio 45840 Phone 1-800-2-HANCOR, Ext. 242 Fax 419-424-8302

Hancor®, EnviroChamber™ and EqualFlo™ are trademarks of Hancor, Inc.
Norwesco™ is a trademark of Norwesco, Inc.

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EC-1-0607952P

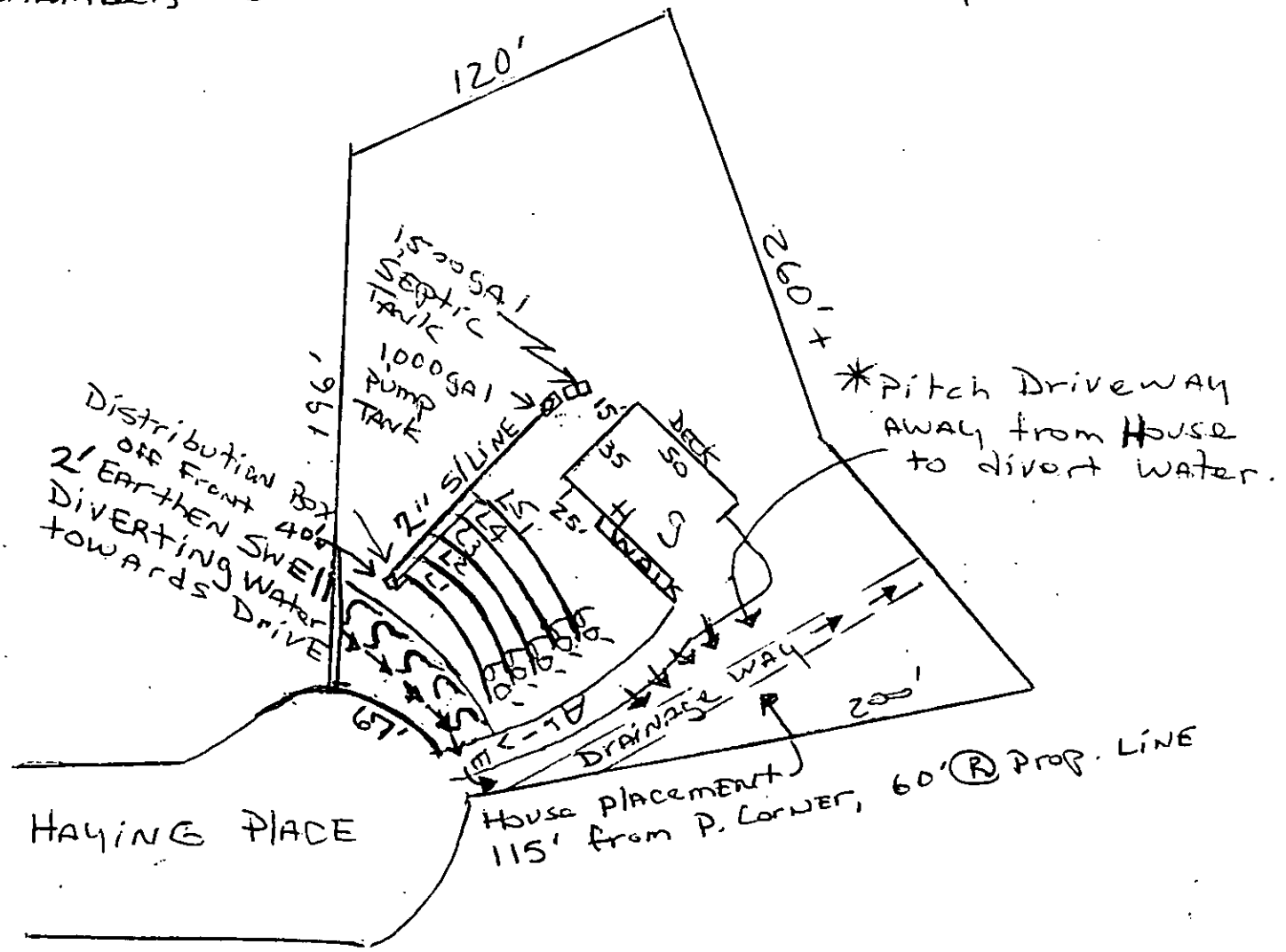
MCHD

File: 21442

Lot 13, Kemper Downs

(3) Bedrm. Pumped (*Hancor)
(EnviroChamber) H-10 Load Design)

1,500 gal. Septic Tank
1,000 gal. Pump Tank
300'± Chamber Lines (Hancor) to be installed on grade.
(5) 62.5' Lines, 10 Chambers per Line = 50 Total.
*Chambers to be installed at trench depth of 24".



T. Whittaker
7466-9540

Scale 60

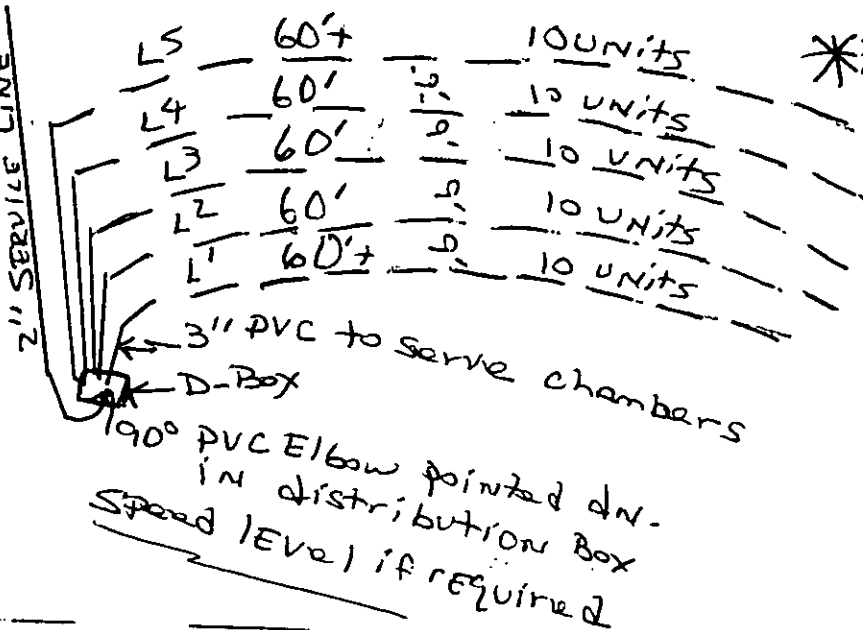
MCHD

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Lot 13, Kemper Downs

(3) Bedrm. Pumped Plan

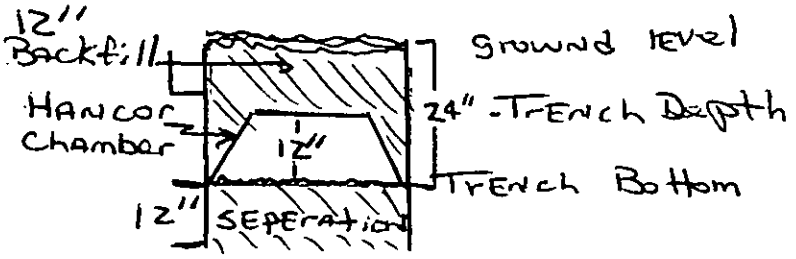
HANCOR (ENVIRO CHAMBER) H-10



** Due to line contour & grade (2) Standard Chamber Elbows may be required for each line. (10) (11.25°) Elbows as speced on SPECS sheet.

*(10 Total) Elbows

TRENCH Profile



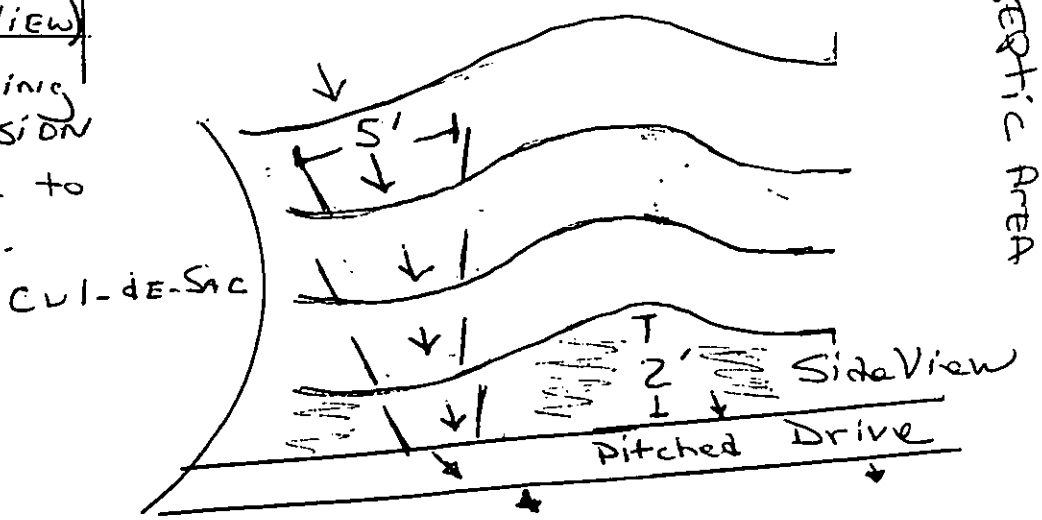
* 24" INSTALLMENT 12"+ approved backfill Turtle back AS NEEDED, UNIform backfill.

* Add Sand AS required by the M.C. H.D. for trench walls.

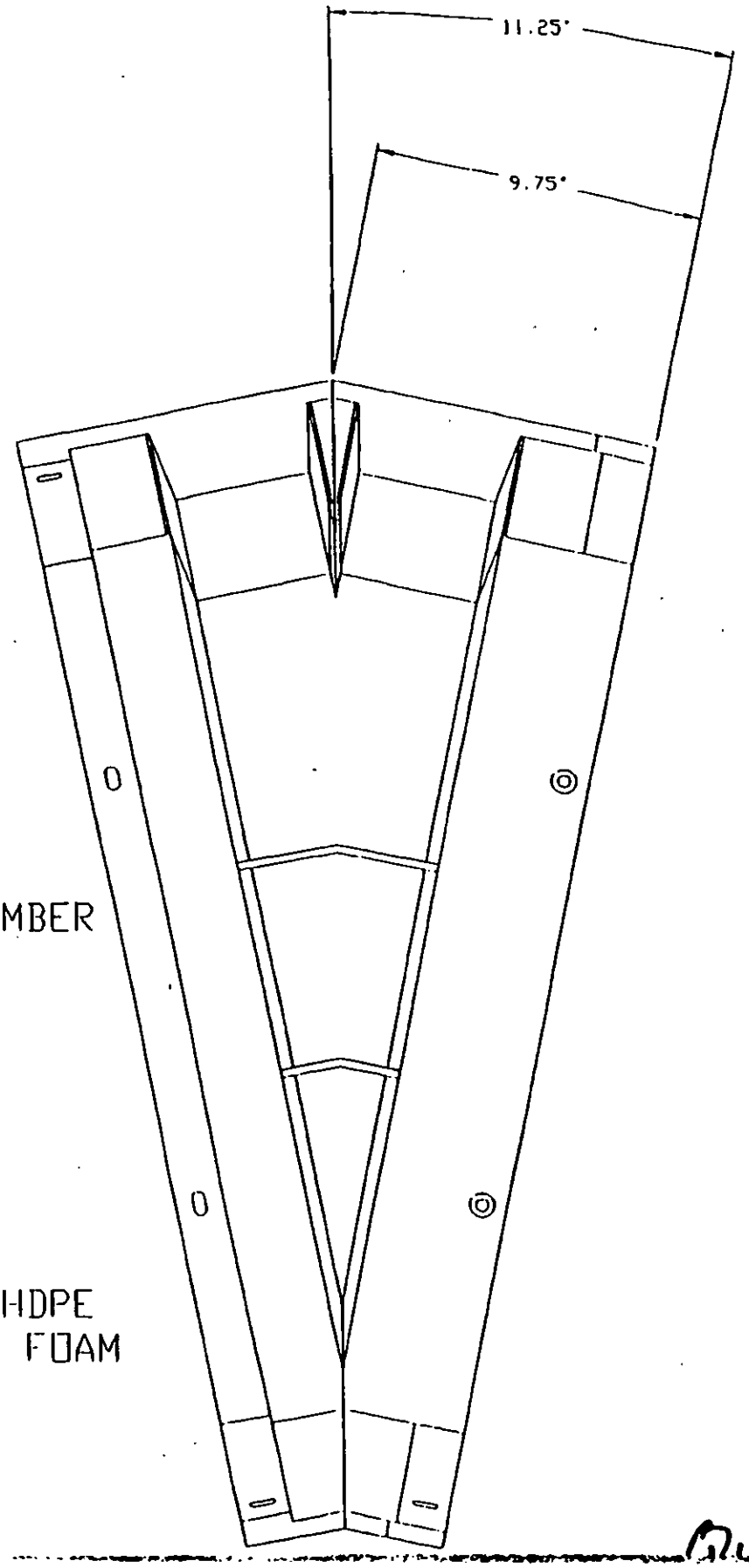
EARTHEN SWELL EXISTING (SIDE VIEW)

① CLEAN UP EXISTING SWELL & DIVERSION

② Divert run-off to pitched Drive.



NO SCALE



STANDARD CHAMBER
ELBOW

MATERIAL: HDPE
STRUCTURAL FOAM

DATE 8/28/96

TO: CHARLOTTE-MECKLENBURG BUILDING STANDARDS
PERMIT ISSUING SECTION

FROM: MECKLENBURG COUNTY ENGINEERING

JURISDICTION Mint

137-211-13
PARCEL NUMBER

9645 Haying Pl
ASSIGNED STREET ADDRESS (ADDRESS OF RECORD)

Lot 13
EXISTING STREET ADDRESS (IF DIFFERENT FROM ASSIGNED)

Kemper Downs
PROJECT NAME (IF APPLICABLE)

THE ABOVE DESCRIBED LOCATION HAS BEEN CHECKED CONCERNING:

1. SUBDIVISION REGULATIONS	APPROVED	NOT APPROVED
2. FLOODWAY REGULATIONS	APPROVED	NOT APPROVED
3. WATERSHED PROTECTION	APPROVED	NOT APPROVED
4. COMMERCIAL DRAINAGE PLAN	APPROVED	NOT APPROVED
5. PUBLIC UTILITY EASEMENT	PRESENT	NOT PRESENT
6. PROPERTY FRONTS ON THOROUGHFARE	YES	NO
7. DRIVEWAY PERMIT REQUIRED	YES	NO
8. DOES PROJECT CONFLICT WITH ROAD PROJECT?	YES	NO

REMARKS: Septic tank

NOTE: THIS FORM MUST BE TURNED IN AT THE CASHIERS OFFICE WHEN PAYING PERMIT FEE. CERTIFICATE OF OCCUPANCY WILL NOT BE GRANTED UNTIL TRANSPORTATION DIVISION GRANTS FINAL APPROVAL ON DRIVEWAY(S).

ALL OTHER FORMS OBSOLETE

☐ NEW ADDRESS

SIGNED: Rule

REVISED 1/9:

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

WASTEWATER TREATMENT AND DISPOSA SYSTEM DESIGN AGREEMENT: 15A NCAC 18A .1948 AND ANY OF THE FOLLOWING RULES: .1956; .1957(a); .1957(b); or .1957(c); OR .1969

FILE # 21442
PARCEL # 137-211-13 Lot 13

The undersigned, Helen K. Swiger, owner of property located at 9645 Haying Place, (the "site") and described in an instrument recorded in Book 4990 at Page 0710, Mecklenburg Public Registry, hereby acknowledges that the undersigned applied to the Mecklenburg County Health Department (the "Department") for a permit to install a septic tank sewage disposal system on the site; that the Department evaluated the site for suitability for such a system in accordance with the regulations promulgated by the North Carolina Commission for Health Services as 15A NCAC 18A .1900 et seq.; that the Department originally classified the site as "unsuitable" pursuant to the standards set forth in the regulations; that the undersigned requested that the Department reclassify the site as "provisionally suitable" in light of the particular septic tank system proposed by the undersigned; that the Department considered various studies, data, and other information which indicate to the Department that the septic tank system proposed by the undersigned is allowed by the rules; and that the Department therefore reclassified the site as "provisionally suitable" and issued an appropriate permit for such proposed septic tank system.

The undersigned further acknowledges that the proper design, construction, operation and maintenance of such septic tank system is the responsibility of the designer, owner, developer, installer, or user of the system, as applicable, and that neither the Department nor its officials, employees, or agents warrant or guarantee that the said system installed pursuant to the permit issued by the Department will function in a satisfactory manner for any given period of time or that the Department, its officials, employees or agents assume any liability for any damages of any kind which are caused, or which may be caused, by a malfunction of such system.

The undersigned further acknowledges that the following conditions will apply to the site:

- Any changes on the property may make the Improvement Permit Null and void and may make the Improvement Permit subject to revocation.

This instrument was prepared by: Helen K. Swiger
Mail after recording to: 3309 Dan Hood Rd
Matthews, NC 28105

BK: 08768 PG: 0147/0149 #:0427 12.00
JUDITH A GIBSON REG OF DEEDS MECK NC
FILED FOR REGISTRATION 10/03/96 15:37

- Do not grade, cut, fill, pave, construct a building or deck, dig a well, install a swimming pool or otherwise cover or disturb the soil (except for planting and maintaining grass or other ground covers) in a manner which will adversely affect the repair area or area where the septic tank system is located.

- When a private certified operator is required, no improvement permit for the designated repair shall be issued unless there is a private certified operator to carry out this management program in the service area where the proposed system is to be located. (Refer to Rule .1961, "Maintenance of Sewage Systems," for further information.)

- Additional fees will be required according to the Mecklenburg County user fee schedule applicable at the time for the issuance of a repair permit for any subsequent repairs to the sewage treatment and disposal system or for installation of a replacement system.

- At the time repairs to the sewage treatment and disposal system are to be made or a replacement system installed, the regulations in effect at that time will govern the repairs or installation of a replacement system.

The undersigned further agrees for himself, his heirs and assigns that he shall indemnify and hold harmless the Department, its employees, and officials, as well as Mecklenburg County and its employees and officials, for any damages or other claims of any person or persons whatsoever arising out of the installation, operation, or failure of said septic tank system.

Use of the singular masculine pronoun forms herein shall be deemed to also include the plural and feminine forms as the context may require.

This document shall be placed on the public records of the Register of Deeds of Mecklenburg County and indexed therein under the Grantor Index in the name or names of the undersigned, and the foregoing acknowledgements shall henceforth be binding on all persons claiming any right, title, or interest in the site.

IN WITNESS WHEREOF, the undersigned has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, this 30 day of August, 1996.

(Corporate Name)

Helen K. Bunger (SEAL)

(SEAL)

By: _____

President

(SEAL)

(SEAL)

ATTEST:

Secretary

(Corporate Seal)

STATE OF NORTH CAROLINA
COUNTY OF Hoke Cumberland

I, Mary W. King, a Notary Public for said County and State, do hereby certify that Helen K. Bunger personally appeared before me this date and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and notarial seal, this 30th day of Aug, 1996

Mary W. King
Notary Public

My Commission Expires:
MARY W. KING
Expiring-April 19, 1999

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

INNOVATIVE WASTEWATER SYSTEM APPROVAL

INNOVATIVE WASTEWATER SYSTEM NO.: IWWS-95-2

ISSUED TO: Hancor, Inc.
Post Office Box 1047
Findlay, Ohio

FOR: "Hancor EnviroChamber" sewage effluent subsurface disposal system
[Standard 12 in High Unit with H-10 Load Design]

DATE: August 10, 1995

In accordance with 15A NCAC 18A .1969, an application by Hancor, Inc. of Findlay, OH for approval of the chamber (gravel-less) nitrification trench system has been reviewed, and the standard unit Infiltrator system has been found to meet the standards of an innovative system when all of the conditions are met:

I. PERMITTING

Prior to the installation of the standard unit EnviroChamber nitrification trench system at a site for which application is being made for an improvement permit or at a site for which an improvement permit has been previously issued for a system described in 15A NCAC 18A .1955, .1956, or .1957, the owner or authorized agent shall notify the local health department. The local health department shall issue an improvement permit or amend the previously issued improvement permit allowing for the use of the proposed innovative system upon a finding that all provisions of this approval and all other applicable rules shall be met. Use of the proposed innovative system and any conditions shall be described in the improvement permit or amended improvement permit, as applicable. Such information shall also be described on the operation permit to be issued upon the acceptable completion of the system installation.

II. SYSTEM DESCRIPTION

a. Minimum pretreatment by septic tank as required in 15A NCAC 18A .1952.

b. Standard chamber unit consisting of a high density polyethylene arch-shaped injection molded chamber with an inside width of 32.5 to 28.5 inches (35 inches outside width) and an overall length of 75 inches. The standard unit height is approximately one foot high with 1/4-inch wide slotted sidewalls approximately 8 inches high. The chamber sidewall slope is approximately 20 degrees toward the chamber center or away from the trench sidewall. Note: 16 standard EnviroChamber units are approximately equal to 100 linear feet.

c. Each chamber unit is designed to mechanically interlock with the downstream chamber forming a complete nitrification trench that consists of an inlet plate in the first chamber with a splash plate located below the inlet on the trench bottom and a solid end plate to be located at the distal end of any chamber nitrification line.

III. SITING CRITERIA

The standard unit EnviroChamber nitrification trench assembly may be utilized on sites which meet the following criteria:

a. Sites which are classified Suitable or Provisionally Suitable for a conventional nitrification field system in accordance with 15A NCAC 18A .1948(a) or (b).

b. Sites which have been reclassified as Provisionally Suitable in accordance with 15A NCAC 18A .1956(1), (2), (4), (5), and (6).

c. Sites which meet the criteria for new or existing fill in accordance with 15A NCAC 18A .1957(b).

d. The required vertical separation shall be measured from the bottom edge of the chamber.

IV. ENVIROCHAMBER SYSTEM SIZING

a. The maximum long-term acceptance rate (LTAR) shall be as follows:

		LTAR (gpd/ft²)	
		Natural Soil	**Saprolite**
Soil Group I	Sands	0.8 - 1.0	0.4 - 0.6
Soil Group II	Coarse Loams	0.6 - 0.8	0.1 - 0.4
Soil Group III	Fine Loams	0.3 - 0.6	---
Soil Group IV	Clays	0.1 - 0.4	---

b. The LTAR shall be based on the most hydraulically limiting naturally occurring soil horizon within three feet of the ground surface or to a depth of one foot below trench bottom, whichever is deeper.

c. To determine the total trench bottom area (ft^2) required; the design daily sewage flow shall be divided by the applicable long-term acceptance rate shown in (a) above. The minimum linear footage of EnviroChamber system required shall be determined by dividing the total trench bottom area by 4 feet when used in a conventional nitrification trench. No reduction in area is allowed for EnviroChamber systems installed in bed or fill systems.

EXAMPLE:

Assume: Three bedroom residence with a design daily sewage flow of 360 gallons on a sandy clay loam (Group III) soil.

Then: Total computed trench bottom area is:
360 gpd/0.5 LTAR = 720 ft^2;

The required linear footage of EnviroChamber system is:
720 ft^2/4.0 ft = 180 linear ft.
(Where 4.0 ft. is the equivalency factor for the standard unit EnviroChamber system)

d. To determine the minimum number of EnviroChamber units required in a nitrification trench, divide the trench bottom area by 24 and round to the nearest whole number.

720 ft^2/24 = 30 units

e. The minimum area (without reduction or equivalency factor) for a bed system shall be determined as required in 15A NCAC 18A .1955(d) except that the chambers shall be placed in rows next to each other.

f. The available space requirements of 15A NCAC 18A .1945 shall apply. Also this approved innovative system may be designated as the required replacement system.

V. DESIGN AND INSTALLATION CRITERIA

a. The EnviroChamber system used in nitrification trenches shall be in 3 ft. wide maximum excavation and constructed not less than nine feet on centers.

b. The inlet to the EnviroChamber shall be in the uppermost portion of the specially prepared inlet panel with a splash plate below the inlet on the trench bottom.

c. Clean Group I, II, or III soil backfill (soil normally found in the upper 10 inches of the trench excavation) shall be placed along the chamber sidewall area to a minimum compacted (walked in) height of 8 inches above the trench bottom. Additional backfill (Group I, II, III, or IV) shall be placed to a minimum compacted height of 12 inches above the chamber. No excavation equipment shall travel over the chamber system. It is critical to note that the nitrification trench bottom shall be at least 24 inches below finished grade, and the inlet invert shall be approximately 8 inches above the trench bottom, and at least 17 inches below finished grade.

d. Individual chamber trenches shall be constructed level in all directions (both across and along the trench bottom) and shall follow the contour the ground surface elevation (uniform depth) with continuous interlocking chambers, including specially constructed contour fitting EnviroChamber units, without any dams, stepdowns or other water stops.

e. EnviroChamber systems installed on a sloping site may use distribution devices or stepdowns as described in 15A NCAC 18A .1955(j) and (l) when it is necessary to change level nitrification line segments from upper to lower elevations.

f. Manufacturer's installation instructions for the EnviroChamber system used in septic tank systems shall be followed except as required herein or 15A NCAC 18A .1900 et.seq.

g. The system shall be installed by a contractor authorized in writing by Hancor, Inc.

VI. OPERATION AND MAINTENANCE REQUIREMENTS

The EnviroChamber system shall have a minimum classification as a Type III g. system (other non-conventional trench systems) in accordance with Table V(a) of 15A NCAC 18A .1961(b).

VII. REPAIR OF SYSTEMS

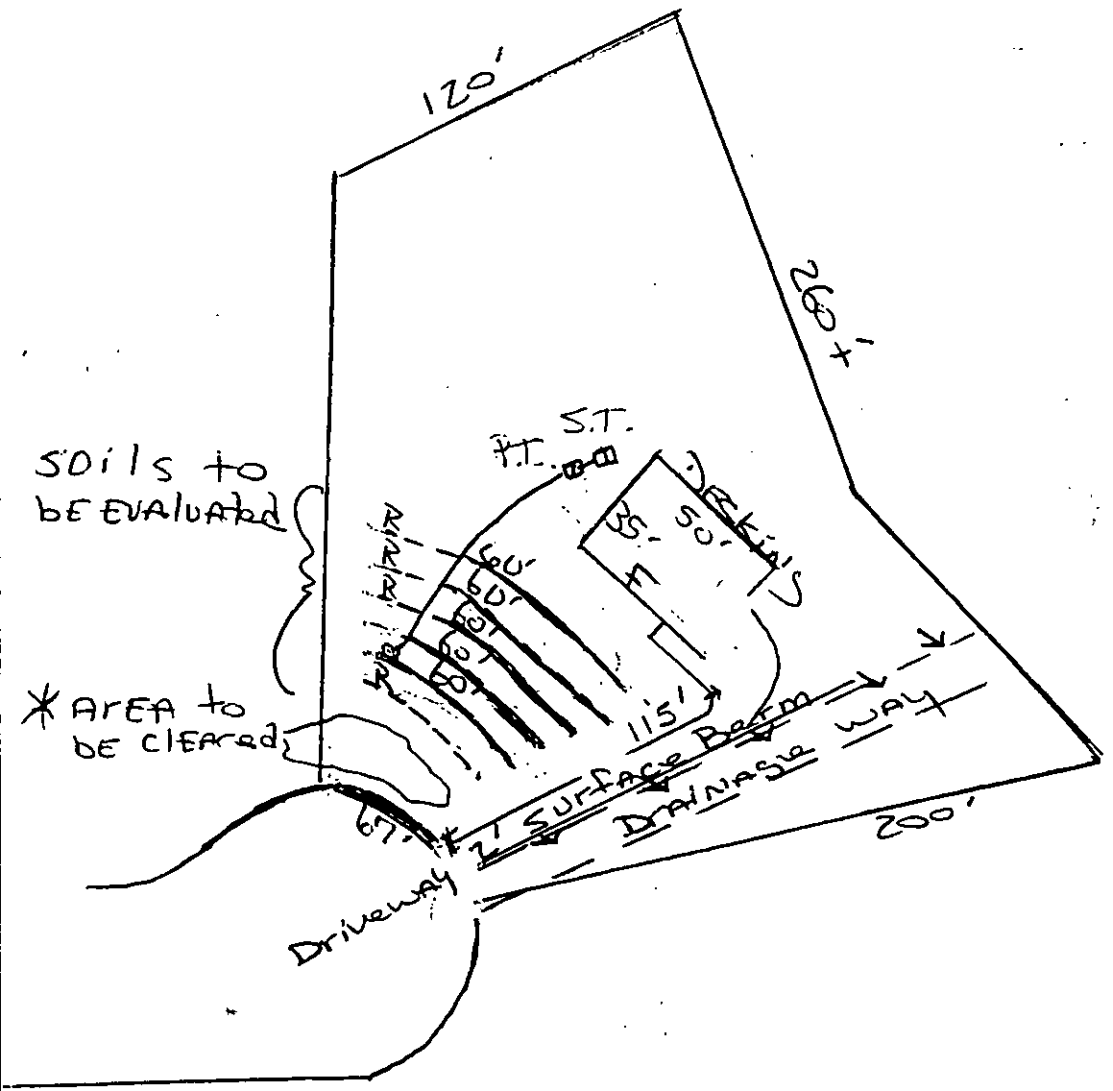
The provisions of 15A NCAC 18A 1961(c) shall apply to the use of the standard Infiltrator chamber system for repairs to existing malfunctioning septic tank systems.

Approved by: _____ Date: Aug. 10, 1995

p:\wp61\sjs\iwws952.sjs

McHD
File: 21442
Lot 13, KEMPER DOWNS

(3) Bedrm. Pumped Chamber SEPTIC System,
(5) 60'+ LINES, 10 chambers per LINE = 300'
Pump to D-Box, gravity flow to chambers.



T. Whittaker
366-9540
Scale
60

DATE 8/28/96

TO: CHARLOTTE-MECKLENBURG BUILDING STANDARDS
PERMIT ISSUING SECTION

FROM: MECKLENBURG COUNTY ENGINEERING

JURISDICTION Mint

137-211-13
PARCEL NUMBER

9645 Haying Pl
ASSIGNED STREET ADDRESS (ADDRESS OF RECORD)

File: 21942 Lot 13
EXISTING STREET ADDRESS (IF DIFFERENT FROM ASSIGNED)

Kemper Downs
PROJECT NAME (IF APPLICABLE)

THE ABOVE DESCRIBED LOCATION HAS BEEN CHECKED CONCERNING:

1. SUBDIVISION REGULATIONS	APPROVED	NOT APPROVED
2. FLOODWAY REGULATIONS	APPROVED	NOT APPROVED
3. WATERSHED PROTECTION	APPROVED	NOT APPROVED
4. COMMERCIAL DRAINAGE PLAN	APPROVED	NOT APPROVED
5. PUBLIC UTILITY EASEMENT	PRESENT	NOT PRESENT
6. PROPERTY FRONTS ON THOROUGHFARE	YES	NO
7. DRIVEWAY PERMIT REQUIRED	YES	NO
8. DOES PROJECT CONFLICT WITH ROAD PROJECT?	YES	NO

REMARKS: Septic tank

NOTE: THIS FORM MUST BE TURNED IN AT THE CASHIERS OFFICE WHEN PAYING PERMIT FEE. CERTIFICATE OF OCCUPANCY WILL NOT BE GRANTED UNTIL TRANSPORTATION DIVISION GRANTS FINAL APPROVAL ON DRIVEWAY(S).

ALL OTHER FORMS OBSOLETE

☐ NEW ADDRESS

SIGNED: [signature]

REVISED 1/91

FEE: 100.00 CK # 4351
DATE: 2/21/96 JC

APPLICATION FOR IMPROVEMENT PERMIT FOR RESIDENTIAL SITE INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM

[ ] CRT

TYPE APPLICATION: ___ NEW SYSTEM ___ EXPANSION/ ALTERATION OF EXISTING SYSTEM ___ REPAIR OF EXISTING SYSTEM

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT,
HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

FILE #: 21442

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION: 137-21-13

TAX/PARCEL NUMBER: ~~TC-AO 137-132-05~~

STREET ADDRESS: 9645 HAYING PLACE

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER: # 13

TYPE OF BUILDING (CHECK ONE):

___ SINGLE MOBILE HOME(S)
___ DOUBLE WIDE (D)
X HOUSE (H)
___ MODULAR HOME (M)
___ MULTIPLE FAMILY (U)
___ OTHER (O)

HEATED SQUARE FOOTAGE: 1600 ±

NUMBER OF BEDROOMS: 3

NUMBER OF OCCUPANTS:

FOUNDATION FOR RESIDENCE:

___ WITHOUT BASEMENT
___ ON SLAB
___ CRAWL SPACE
___ WITH BASEMENT /PLUMBING
X WITH BASEMENT /NO PLUMBING

TOWNSHIP (CHECK ONE):

___ 0 MECKLENBURG
___ 1 CHARLOTTE
___ 2 DAVIDSON
___ 3 CORNELIUS
___ 4 PINEVILLE
___ 5 MATTHEWS
___ 6 HUNTERSVILLE
X 7 MINT HILL

IF EXPANSION/ALTERATION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED BUILDING ADDITION:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: ___ YES X NO TYPE: _____

WATER SUPPLY (CHECK ONE):

___ COMMUNITY (C)
___ MUNICIPAL (M)
X PRIVATE WELL (P)
___ SHARED WELL (S)
___ OTHER 'SPRINGS' (O)

IF ANY OF THE FOLLOWING ARE LOCATED ON THE PROPERTY, PLEASE SHOW LOCATION ON PLAT:

BURIED CABLES, LANDFILLS, STUMPHOLES ___ YES ___ NO
EXISTING WASTEWATER SYSTEMS ___ YES ___ NO
EASTMENTS OR RIGHT-OF-WAYS NONE KNOWN ___ YES ___ NO
WELL, SPRINGS OR WATERLINES ___ YES X NO
DESIGNATED WETLANDS ___ YES X NO

PROPERTY OWNER:	LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:
NAME: SWIGER, HELEN K. (LAST) (FIRST) (MI)	NAME: (LAST) (FIRST) (MI)
ADDRESS: 9309 OAN WOOD RD	DAYTIME PHONE: ( ) -
CITY: MATTHEWS STATE: N.C. ZIP: 28105	
DAYTIME PHONE: (704) 847 - 9556	

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 4-3-79

An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes agents of the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

SIGNED: Helen K. Swiger DATE: 2-20-96

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR., SUITE 211, 700 N. TRYON ST., CHARLOTTE, N.C. 28202., (704) 336-5102

DEPARTMENT OF
ENVIRONMENTAL HEALTH
MECKLENBURG COUNTY,
NORTH CAROLINA

SITE EVALUATION

S.E.R. NO. 21442

T.C. NO. P 1312-1-2

(Ground Absorption Sewage Disposal)

OWNER: JOHN KEMPER
ADDRESS: 3309 DAN HOOD RD
MATTHEWS 28215
LOCATION OF SITE: Lot 13 Hayley Place (Kleis Rd)

PLAT NO:
LOT SIZE: 30000 E 70

FACTORS	AREA 1	AREA 2	AREA 3	AREA 4
1. SLOPE (%)	S PS U Fill	S (PS) 10-20 U	S (PS) 0-4 U	S PS U
2. SOIL TEXTURE (12-36 inches) Sandy, Loamy, Clayey (Note 2-1 Clay)	S PS U	S (PS) Clayey U	S PS (U) mixed Clay	S PS U
3. SOIL STRUCTURE (12-36 inches)	S PS U	S (PS) Blocky U	S PS (U) weak Blocky	S PS U
4. SOIL DEPTH (inches)	S PS U	S (PS) 15-36" (U)	S PS (U) 20-40	S PS U
5. RESTRICTIVE HORIZONS (Inches) (Impervious strata, Rock)	S PS U	S (PS) None U	S (PS) None U	S PS U
6. SOIL DRAINAGE/GROUNDWATER (external and internal)	S PS U	S (PS) Adequate U	S PS (U) slow	S PS U
7. OTHER (Specify)	S PS U	S PS (U) Rest Heaters Area	S PS U	S PS U
8. SOIL GROUP		IVa	IVb	
9. SITE CLASSIFICATION	Unsuitable	Unsuitable Pacolet	Unsuitable	
10. SOIL SERIES		Pacolet	Helena & Monacan	

S - Suitable PS - Provisionally Suitable U - Unsuitable

**See Diagram on Back (includes: soil areas, property lines, roads, streams, gullies, wet areas, fill areas, wells, water bodies, slopes)

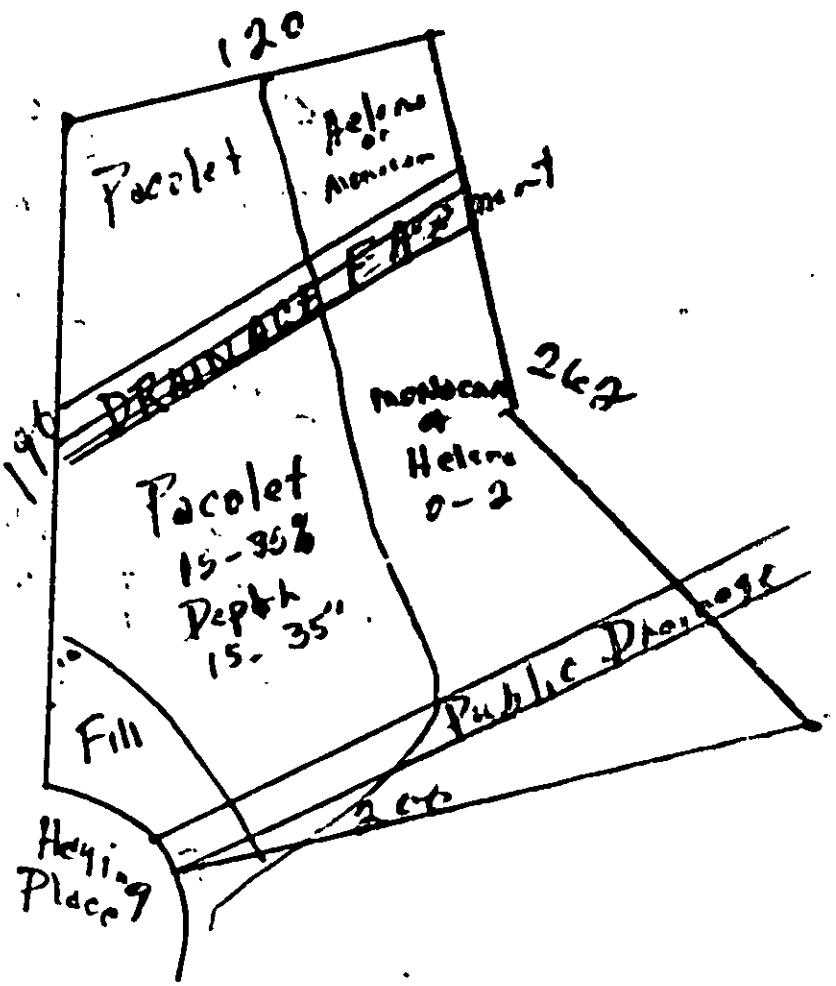
Recommendations/Comments: _____

Described by: W. B. Ramsey
Title: SOIL SCIENTIST

Date: 11-23-84

cd

Lot 13 Hayes Place



Mecklenburg County
Health Department

Application for
Inspection of Public Records

By completing the following form, the undersigned does hereby make application to inspect the specified public records under the supervision of authorized personnel. This inspection is in accordance with North Carolina General Statute 132-6.

Name of person making request: T. Whitaker

Address: 1728 Armstrong Pk Dr.

Description of public record requested: files / Septic

Street Name (or County Road):

Lot: Block:

Parcel Number: 21442, 493-A, 234-B

Owner's Name:

Reason for Request:

REVIEW

Signature of Person Making Request: Tim Whitaker

4/29/96

Supervisory Person:

Date: Time:

Environmental Health Division

Mecklenburg County
Health Department

April 19, 1996

Helen K. Swiger
9309 Dan Hood Road
Matthews, NC 28105

Re: 9645 Haying Place
File: 21442
Parcel: 137-211-13

Dear Ms. Swiger:

Receipt of the plans and specifications for a conventional system of sewage disposal for the above property is hereby acknowledged. Upon receipt of the information, a review was made of the material on file and a site evaluation was conducted. The plan was then reviewed in conjunction with provisions of 15 NCAC 18A, .2900, "Laws and Rules for Sanitary Sewage Collection, Treatment and Disposal". Our comments are listed below:

.1943 SOIL DEPTH
(a) Soil depths to saprolite, rock, or parent material greater than 48 inches shall be considered SUITABLE as to soil depth. Soil depths to saprolite, rock, or parent material between 36 inches and 48 inches shall be considered PROVISIONALLY SUITABLE as to soil depth. Soil depths to saprolite, rock, or parent material less than 36 inches shall be classified UNSUITABLE as to soil depth.
(b) Where the site is UNSUITABLE with respect to depth, it may be reclassified PROVISIONALLY SUITABLE after a special investigation indicates that a modified or alternative system can be installed in accordance with Rule .1956 or Rule .1957 of this Section.

For these reasons, the plans as submitted are disapproved: However, state regulations provide that sites originally classified unsuitable may be utilized for the installation of alternate or modified sewage disposal systems provided the requirements of 15 NCAC 18A .1948 (c) are met.

Should you desire to file for permission to install an alternate or modified sewage treatment system on the property, please submit an Application For An Improvement Permit with an ACCURATELY dimensioned plot plan detailing the location of current and/or proposed buildings, wells and sewage disposal systems to this office. They will be reviewed, and if it is determined that the proposed system may reasonable be expected to function satisfactorily, an Improvement Permit will be issued by the Department upon completion by you, of a formal request for lot reclassification.

If I may be of any assistance, please feel free to contact me at 336-5570.

Sincerely,

Philo S. Walker R.S.

Philo S. Walker, R.S.
Individual Water and Wastewater Systems

PW:gc

FEE: 100.00 CK # 4351
DATE: 2/21/96 JC

APPLICATION FOR IMPROVEMENT PERMIT FOR RESIDENTIAL SITE INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM

[ ] CRT

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NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT,
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___ 3 CORNELIUS
___ 4 PINEVILLE
___ 5 MATTHEWS
___ 6 HUNTERSVILLE
X 7 MINT HILL

HEATED SQUARE FOOTAGE: 1600 ±

NUMBER OF BEDROOMS: 3

NUMBER OF OCCUPANTS:

FOUNDATION FOR RESIDENCE:

___ WITHOUT BASEMENT
___ ON SLAB
___ CRAWL SPACE
___ WITH BASEMENT /PLUMBING
X WITH BASEMENT /NO PLUMBING

IF EXPANSION/ALTERATION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED BUILDING ADDITION:

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EASTMENTS OR RIGHT-OF-WAYS ___ YES ___ NO
NONE KNOWN

WELL, SPRINGS OR WATERLINES ___ YES X NO
DESIGNATED WETLANDS ___ YES X NO

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NAME: SWIGER, HELEN K. (LAST) (FIRST) (MI)	NAME: (LAST) (FIRST) (MI)
ADDRESS: 9309 OAN #000 RD	DAYTIME PHONE: ( ) —
CITY: MATTHEWS STATE: N.C. ZIP: 28105	
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SIGNED: Helen K. Swiger DATE: 2-20-96

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR., SUITE 211, 700 N. TRYON ST., CHARLOTTE, N.C. 28202., (704) 336-5102