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Groundwater and Wastewater Services File Imaging Project

May 2007

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

DATE: 6-13-97 PERMIT NO: 3812-B
PARCEL NO: 217-201-03 B

JOB LOCATION ADDRESS: 18225 PASSAGE WAY
PROPERTY OWNER: Kirk Westerman
BUILDING CONTRACTOR: _____
SUBDIVISION NAME: _____
AUTHORIZATION ISSUED BY: Kelly Powell DATE: _____
DEHNR AUTHORIZED AGENT

AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 3812-B, 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 [illegible] SEPTIC TANK CONTRACTOR WITH MECKLE[illegible]

3. ANY ALTERAT[illegible] OF STRUCTURES [illegible] D IN THE WASTEWATE[illegible] ASSOCIATED [illegible] THIS AUTHORIZAT[illegible]

4. OTHER CONDITIONS:

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.

Gary Clark Wilkes Agent 6/12/97
SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE DATE

Permit Number: 3812-B

CONDITIONS OF IMPROVEMENT PERMIT

Tax Number: 217-201-03

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	480 Max gallons/day wastewater flow	1200 Absorption Area (sq ft)	9 Trench spacing (min. on centers)	
Yes Serviced by private well	1500 Gallon septic tank	400 Total trench length (ft)	24" Maximum trench depth (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions)	
4 Bedrooms in residence	1000 Gallon pump tank	N/A Depth of stone		
Any surface waters present: yes Type: Lake Wylie Minimum separation distance: 50'+				
Site modifications required: No				
Additional Conditions: easement on record for drain fields install in accordance w/ plan on file				
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	
1200 Absorption Area (Sq Ft) 400 Total Trench Length (Ft)	N/A 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.

Kelly Rudd 6-17-97
DEHNR Authorized Agent Date

Tony Gordon 6/17/97
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

.33'	N89°20'25"E	02°09'35"
.05'	S73°34'13"W	33°42'00"
.08'	S62°40'51"W	11°55'15"
.78'	S20°50'30"W	39°19'00"
3.23'	S52°54'04"E	86°02'26"

L13	S50°10'[illegible]"W	
L14	S01°11'00"W	124.61'
L15	S40°30'00"W	31.58'

LOCATION MAP-NOT TO SCALE

PLAT NORTH
PB. 17, PG. 520
DATED: 3-1-76

File # 3812B

Map Book 28 Page 557

JAMES V. BAKER, JR. NOTARY PUBLIC MECKLENBURG COUNTY, N.C.

STATE OF NO
MECKLNBURG

I, a Notary Public
certify that JAME
surveyor, personall
acknowledged the
ment, Witness my
14th day of A

My commision exp

FILED FOR REGISTRATION
AUG 14 1997
AT 13:52
JUDITH A. GIBSON
MECKLENBURG COUNTY, N. C.
REGISTER OF DEEDS

NOTE:
THIS PLAT IS OF A SURVEY THAT CREATES A SUBDIVISION
OF A COUNTY OR MUNICIPALITY THAT HAS AN ORDINANCE

James R. Hobbs L-3703

CAROLINA CENTERS, LLC
DB. 7606, PG. 475
(J.F. YOUNGBLOOD)
CAT-161
D.B. 576, PG. 520
CAT-490
D.B. 3146, PG. 165

N/F
CRESCENT RESOURCES, INC.
(J.F. YOUNGBLOOD)
CAT-161, D.B. 576, PG. 520
CAT-490, D.B. 3146, PG. 165
REC. LOT 159
SECTION 43
P.B. 17, PG. 521
REF. DWG. LW-43M

FOR REC. LOT 147
AREA WITHIN P/O. 10' SEWER LINE
EASEMENT = 0.029 ACRES
(1,251 SQ. FT.)

TO YOUNGBLOOD RD.

DEC OVHD
DISTRIBUTION LINE

60' R/W
MISEHOUSE ROAD

SEWER EASEMENT FOLLOWS ROAD R/W. LIMIT

P/L FOLLOWS ROAD R/W. LIMIT

S16°14'32"E 145.22'
N77°14'47"E 284.77'
S73°44'49"E 331.91'
S72°24'11"E 123.50'
S39°28'25"E 97.35'
S39°21'01"E 55.66'
N82°33'13"E 47.61'
N82°33'13"E 125.00'
S82°33'13"W 125.00'
S82°33'13"W 125.00'
S29°23'16"W 99.02'
N07°26'47"W 128.96' (TOTAL)
N07°26'47"W 125.00' (TOTAL)
10.05'
10.00'
115.00'
108.86'

ADDITION TO
LOT 147
0.460 ACRE
(20,057 SQ. FT.)
REQUEST:
91799

CAROLINA CENTERS, LLC
DB. 7606, PG. 475
(J.F. YOUNGBLOOD)
CAT-161
D.B. 576, PG. 520
CAT-490
D.B. 3146, PG. 165

NOTE:
THIS PLAT IS NOT SUBJECT TO
OR MECKLENBURG COUNTY SUB
REQUIRE THE APPROVAL OF TH
COMMISSION. HOWEVER, ANY FU
BE SUBJECT TO THESE PROVI
CHARLOTTE MECKLENBURG P

PLANNING COMMISSION STAFF

10' SEWER EASEMENT FOR
ADDITION TO LOT 146
REQUEST: 91800

ADDITION TO
LOT 146
0.361 ACRE
(15,727 SQ. FT.)

AREA WITHIN 10' SEWER LINE EASEMENT
FOR REC. LOT 146 = 0.165 ACRES
(7,175 SQ. FT.)

10' SEWER EASEMENT FOR
ADDITION TO LOT 147
REQUEST: 91799

FOR REC. LOT 147
AREA WITHIN P/O. 10' SEWER LINE
EASEMENT = 0.166 ACRE
(7,229 SQ. FT.)

CAROLINA CENTERS, LLC
DB. 7606, PG. 475
(S.J. MILLER)
CAT-334
D.B. 168, PG. 446
CAT-490
D.B. 3146, PG. 165

FOR REC. LOT 147
WITHIN P/O. 10' SEWER LINE
SEMENT = 0.029 ACRE
(1,274 SQ. FT.)

P/L FOLLOWS ROAD R/W. LIMIT

PASSAGE WAY
60' R/W

ANG. I. (F) N80°04'22"E 132.87'

(BASE BEARING)
S28°57'00"E 183.85'
205.21' (TOTAL)
10.68'
10.15'

CRESCENT
RESOURCES, INC.
(S.J. MILLER)
CAT-334
D.B. 168, PG. 446
CAT-490
D.B. 3146, PG. 165

CRESCENT
RESOURCES, INC.
(S.J. MILLER)
CAT-334

:/L INTER. OF
E AT LAST LANE
ROYAL OAK RD

J.F. YOUNGBLOOD)
CAT-161
D.B. 576, PG. 520
CAT-490
.B. 3146, PG. 165

, LLC
5

J. MILLER)
AT-334
68, PG. 446
.T-490
46, PG. 165

JUDITH A. GIB
REGISTER
OF
DEEDS
MECKLENBURG COU

CERTIFIED TO BE A TRUE
COPY OF THE ORIGINAL MA
IN BOOK 28 PAGE 55
DATE: August 14
JUDITH A. GIBSON, REGIS
BY:

NOTE: LOTS ARE INTENDED FO

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

#7 38128 4368

Sheet ___ of ___
PROPERTY ID #: ___
COUNTY: ___

SOIL/SITE EVALUATION *for* ON-SITE WASTEWATER SYSTEM

TC 21-7-20103B

OWNER: Gene W. Harrell
ADDRESS: 140 Lake Road, Concord
PROPOSED FACILITY: Residence
LOCATION OF SITE: 18225 Pasture View

APPLICANT: ___
APPLICATION DATE: ___
PROPOSED DESIGN FLOW (.1949): ___
DATE EVALUATED: ___
PROPERTY SIZE: ___
PROPERTY RECORDED: ___

WATER SUPPLY: ☑ Private ☐ Public ☐ Well ☐ Spring ☐ Other ___
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROF CLA & LT
1	LS 14%	0-6"	SC/ / SBK	SEXP/ Fr/ SS/ SP	No chroma 2 observed TO 17"	17"	N/A	None	US
		6-17"	SC/ SBK	EXP/ Fi/ S/ P					
2	LS 20%	0-4"	SC/ / SBK	SEXP/ Fr/ SS/ SP	No Chroma 2 TO 12"	12"	N/A	None	US
		4-12"	SC/ SBK - ABK	EXP/ Fi/ VS/ VP					
3	LS 22%	0-2"	SL/ gr	SEXP/ Fr/ NS/ NP	No chroma 2 TO 20"	20"	N/A	None	US
		2-6"	SC/ / SBK	SEXP/ Fr/ SS/ SP					
		6-20"	SC/ SBK	EXP/ Fi/ S/ P					
4	LS 31%	0-3"	SL/ gr	SEXP/ Fr/ NS/ NP	No chroma 2 TO 20"	12"	N/A	None	US
		3-12"	SC/ SBK	EXP/ Fr-Fi/ S/ P					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (1945)		
System Type(s)		

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): USDA Table
EVALUATED BY: W. A. Marlin 11-13-95
OTHER(S) PRESENT: Billie Baggett

OMMENTS: _____

LEGEND

use the following standard abbreviations

ANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL ,1955 LTAR	LPP ,1957 LTAR	MINERALOGY/ CONSISTENCE	STRUCTURE
C (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
V (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
) (Drainage Way)					EXP (Expansive)	CR (Crumb)
S (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
P (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
S (Foot Slope)						ABK (Angular Blocky)
(Head Slope)	III	SI (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
(Linear Slope)		SICL (Silty Clay Loam)				PR (Prismatic)
(Nose Slope)		CL (Clay Loam)			MOIST	WET
(Ridge)		SCL (Sandy Clay Loam)				
(Shoulder Slope)		SLC (Silt Loam Clay)			VFR (Very Friable)	NS (Non-sticky)
(Terrace)					FR (Friable)	SS (Slightly Sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FI (Firm)	S (Sticky)
		SIC (Silty Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
					EFI (Extremely Firm)	NP (Non-plastic)
		O (Organic)	None			SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

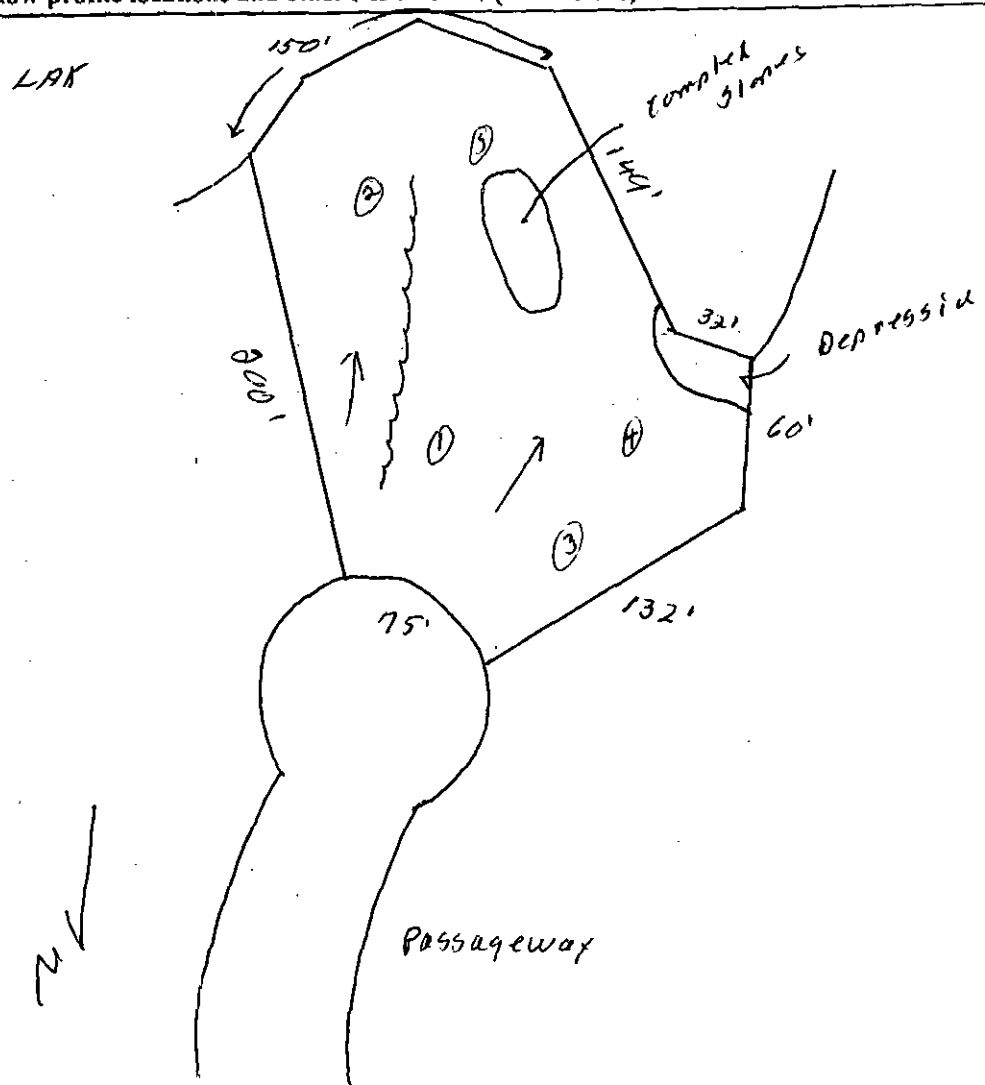
OTES

ORIZON DEPTH	In inches below natural soil surface
EPTH OF FILL	In inches from land surface
ESTRICTIVE HORIZON	Thickness and depth from land surface
APROLITE	S(suitable) or U(unsuitable)
OIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
LASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

valuation of saprolite shall be by pits.

ong-term Acceptance Rate (LTAR): gal/day/ft²

Show profile locations and other site features (dimensions, reference or benchmark, and North).



Plans given back

to Tony Jacobs

for resubmittal

7/11/97

JC

DOSED GRAVITY INFILTRATOR SYSTEM (OFF-SITE)

LOT 147 - 18225 PASSAGE WAY

MECKLENBURG COUNTY - NORTH CAROLINA

MCHD FILE #3812B TAX PARCEL 217-201-03

by

Toney C. Jacobs & Associates, Inc.
Consulting Soil Scientists
168 Broadbill Drive
Mooresville, N. C. 28115

May 23, 1997

revised July 3, 1997

AMERICAN REGISTRY OF CERTIFIED PROFESSIONALS
ARCPACS
TONEY C. JACOBS
CERTIFIED PROFESSIONAL SOIL SCIENTIST
NO. 2830 EXP. 12/31/97

Submitted to: Mr. Kelly Randall, R.S.
Mecklenburg County Health Dept.
Charlotte, N. C.

Mr. Kirk Westerman
4405 Wood Forest Dr.
Rock Hill, S. C. 29732

LICENSED SOIL SCIENTIST
TONEY C. JACOBS
1063
STATE OF NORTH CAROLINA

Toney C. Jacobs, CPSS

Paul G. Penninger

18225 Passage Way - Lot 147

GRAVITY DISTRIBUTION T & J PANEL SYSTEM

Design Considerations

The proposed system is for a 4-bedroom waterfront home on a 0.95 acre lot in a rural area of single family homes in southern Mecklenburg County. The lot will not support an on-site septic system; therefore, the seller, Crescent Resources, Inc., has added an easement to a 0.36 parcel and transferred this as a septic area (maps enclosed). This provisionally suitable area is approximately 1000 feet from the lot and was the closest usable septic area. The property was recorded prior to January 1983; however, because of the added septic the 100% repair area is required.

Soils were evaluated by both Mr. Bill Marlin of the Mecklenburg County Health Department and Toney C. Jacobs & Associates. The system layout was by Toney C. Jacobs & Associates. To best use the easement the chambered system was considered as the best suited system for the tract. The septic system drainfield was flagged in the field as shown in Figure 1. The system will be pumped to a surge tank, gravity to d-box, and chambered system, using 4 x 100' lines. During construction and tree removal precautions should be taken to prevent damaging the system area. The pump supply line is on the easement supplied by CRI and not DOT right-of-way. Both lot 147 and 146 are being purchased by the same buyer (Mr. Kirk Westerman) and are permitted separately.

Location

The lot is on the end of Passage Way, south of Misehouse Road. The system adjoins Misehouse Road.

Reference

(1) *Laws and Rules for Ground Absorption Sewage Disposal Systems 15A NCAC 18A. 1900,* NCDEHNR-DEH.

(2) Infiltrator product information

Recommendation

Four hundred(400) lineal feet of dosed Infiltrator lines using gravity distribution. (Product information sheet on Infiltrator System, Inc. enclosed)

Ownership Responsibility

Conservation measures should be undertaken in plumbing fixture specifications to minimize the volume of wastewater entering the disposal system, including, but not limited to the following precautions:

(a) Provide water conserving plumbing fixtures within the facility. Waterclosets must be 1.6 gal. flush (per code). Shower head should also have restrictions or be of low volume design.

(b) Develop conservative water use habits.

(c) Monitor and maintain the system as necessary for proper operation. An Operation Permit will not require a maintenance contract to be filed with the Mecklenburg County Health Department for the system.

System must be properly installed by a *qualified* and *competent* contractor following the requirements of the Mecklenburg County Department of Environmental Health, DEH, the N.C. Building Code, Plumbing Code, and the Electrical Code. This plan, as any, is a guide to a minimum standard, but cannot take the place of experience and common sense.

Components of System

1. Two compartment septic tank - 1500 gal.
2. Pump tank 1000 gallons
3. Supply pipe
4. Minimum 50 gal concrete surge tank
5. Speed lever box
6. 400' of chambers with sand backfill on the sides.

Construction Sequence

1. Lines have been flagged as noted on drawing and in specifications.

2. Clear the area of all organic material with minimum soil disturbance (do not grade). Backfill any low areas with clean sandy loam to natural compaction and look. This includes soil evaluation pits and stump holes.

3. Install trenches per cited reference material and this plan.

4. Carefully backfill distribution trenches to grade with clean clay or clay loam soil fill material which is carefully placed and compacted.

5. The installation contractor shall stabilize the area of construction by planting with Kentucky 31 tall Fescue and mulching. Area to be limed and fertilized with 0.5 tons lime, 75 units of N, 150 units P, and 100 units of K per disturbed acre.

6. The septic tank shall consist of an approved 1500 gallon capacity reinforced, precast watertight, concrete tank with full baffle and shall have easy access to each chamber from ground level for inspection. The first chamber of the septic tank shall consist of 2/3 to 3/4 of the volume of the total tank and the baffle shall contain a horizontal opening across the tank at about midway . Locate the septic tank at such height as to provide approximately 8" of cover soil over top of the tank.

7. Final Landscaping: After the system is installed, the absorption field should be reshaped to shed rainwater and be free of low areas to insure that the system will not be overloaded with excess rainwater and run-on.

8. Supply pipe shall have a metal locator tape or wire should it have to be located. This is a recommendation and not required. Where this pipe goes under the drive, it must be greater than 36" deep. It could be sleeved in metal, but deeper is better and less expensive.

9. The dosing tank shall consist of an approved 1000 gallon capacity, reinforced, precast, watertight concrete tank without baffle and shall have a concrete mounting pad (concrete blocks) for accommodating the pump. Test for leakage per regulations. Provide access for entry into the tank directly over the pump location, and extending 6" above final grade. Use a 30" diameter concrete well casing or equivalent and concrete well cap or other approved type cover. There must be a seal (masonry or seal rope) between well tile and top of tank.

10. All piping and fitting shall be SCH 40 PVC. Glue for all PVC pipe joints shall be as recommended by the pipe manufacturer.

11. Pump: The submerged pump shall be Model ME 150 manufactured by Myers or equal, 115 or 230 v/1 phase; capable of pumping 13 gallons per minute at 86.7' of head.

12. Pump controls and alarm to meet specifications of .1952, all being compatible.

13. A "Warning Sign" shall be located within the house to inform the occupants of action to take in case the "High Water Alarm" is activated. This sign shall contain the name, address, telephone number, and emergency telephone number of the person to contact upon malfunction of the system.

14. Pump and Controls: Details of pump installation are shown in the plan. The pump must be placed on concrete blocks on the bottom of the tank. This prevents the pumping of any solid particles which can clog the pipe system. A piece of nylon rope or other non-corrodible material should be attached to the pump and the outlet pipe for lifting the pump in and out of the chamber. Controls should be fastened to a "tree" or the outlet pipe with clamps or brackets supplied by the manufacturer. The lower level control or "pump-off" must be positioned above the pump, so that the pump remains submerged at all times. The level control "pump-on" is positioned to pump a specified volume of effluent. The high water control float is then mounted about 3" above the upper pump-on control. (Note: Care must be taken to insure that floats do not become fouled by other components in the tank, such as the electric power cord or the lifting rope. It is highly recommended that a telescoping "tree" be used for floats to facilitate adjustments.) The pump outlet pipe should be connected to the supply manifold with a threaded PVC union (or dresser coupling) to allow quick removal.

15. *Electrical Connections:* The pump and high water alarm must be placed on separate electrical circuits. [If the pump circuit fails, the alarm must still be able to operate]. Follow the manufacturers recommendations for the proper fuses or circuit breakers. All electrical connections must be made outside the pumping chamber. Power cords from the pumps and controls should be plugged into a NEMA 4X approved outdoor receptacle. This must not be located inside the pumping chamber due to the corrosive and explosive gasses that may form from the sewage. This box must be a minimum of 1' above finished grade. Some level control switches have a box built into the housing, but are more expensive than the plug-in devices. Wiring between the pumping chamber and the station should meet State and local code requirements. A lightning arrester is recommended to protect the pump and controls from electrical surges.

16. Proper Operation Check: After all components have been installed and connected, the system should be checked for proper operation. With electrical power turned off, fill the pumping chamber with water from garden hose until the liquid rises to the level of the high-water alarm float. Turn on the electrical power. The alarm light should go on in the house, and the pump should start operating. The alarm light should go off when the liquid reaches the lowest float control. Be sure the pump is still completely submerged.

17. With someone at the surge tank, turn pump on and set gate valve at surge tank to deliver 13 gpm.

18. With an open end box and this pump size, the calculation for a pressure release valve indicator is not needed. Should an air lock occur, the valve can be added on the high point of the supply line.

Concluding Note:

This plan was done to facilitate permitting by the Mecklenburg County Health Department by an agent of the seller (CRI). Because of the complexity of this system, a pre-installation meeting between Toney C. Jacobs & Associates and the installer is recommended if needed. This pre-construction meeting will be billed to the builder or client at current rates. At this time the pump size can be adjusted if necessary. Any additions, or additional requirement(s), or deletions to enhance design or workability which will facilitate a permit are welcomed and may be made by note on this plan without returning entire design. The designer realizes that a plan with as many details as this can be changed and/or improved upon. The installer must realize that this is an exact plan and must be followed and installed with exacting measurements. Should the installer desire a change, it must be approved by the health department in writing. Final inspection will also require more time and detail than a conventional system. If there are questions, please give me a call.

Design Specifications

18225 Passage Way - Lot 147

Daily design flow:	480gpd.
Septic tank size:	1500 gal. (2 compartments)
Pumping tank size:	1000 gal.
Effluent loading rate:	0.3gpd/sf initial system repair the same
Total length and diameter of supply manifold:	app. 1100 ~~1000~~ lf-2" 40 PVC
Number and length of laterals:	4 @ 100' long
Speed lever control:	4 required
Flow rate through the system:	20 gpm capability
Elevation head:	65' *
Pressure head:	3.0'
Friction head:	7.4'
15% contingency	11.3'
Total head:	86.7'
Pump requirements:	13 gpm at 86.7' of head; use Myers "ME 150" 1½hp pump or equivalent with compatible electrical
Dosing volume:	240 gal. - 2.0 doses/day at design flow
Depth of water pumped per dose:	calculated to specific tank by measure or dealer engineering specifications(1 cubic ft. of water equals 7.48 gals.)
Pump run per dose:	approx. 18.0 min. (run time control of dose
Check valve:	Yes
Siphon break hole:	No

* This is lowest pump tank placement. If house and tank are back from lake, this could be reduced and require a smaller pump. (Mecklenburg County topo enclosed)

C10	201.20'	118.34'	60.94'	116.64'	N73°34'13"E	33°42'00"
C11	758.23'	26.58'	13.29'	26.58'	N89°24'57"E	02°00'32"
C12	758.23'	77.52'	38.79'	77.49'	N85°28'57"E	05°51'28"
C13	778.23'	29.34'	14.67'	29.33'	N89°20'25"E	02°09'35"
C14	181.20'	106.58'	54.88'	105.05'	S73°34'13"W	33°42'00"
C15	192.99'	40.15'	20.15'	40.08'	S62°40'51"W	11°55'15"
C16	189.91'	130.32'	67.84'	127.78'	S20°50'30"W	39°19'00"
C17	50.00'	75.08'	46.66'	68.23'	S52°54'04"E	86°02'26"

L10	N38°43'13"E	99.40'
L11	N89°34'47"W	182.96'
L12	S89°34'47"E	182.96'
L13	S56°43'13"W	69.40'
L14	S01°11'00"W	124.61'
L15	S40°30'00"W	31.58'



LOCATION MAP–NOT TO SCALE

PLAT NORTH
PB. 17, PG. 520
DATED: 3-1-76

CRESCENT RESOURCES, INC.
(J.F. YOUNGBLOOD)
CAT-161
D.B. 576, PG. 520
CAT-490
D.B. 3146, PG. 165

N/F
CRESCENT RESOURCES, INC.
(J.F. YOUNGBLOOD)
CAT-161, D.B. 576, PG. 520
CAT-490, D.B. 3146, PG. 165
REC. LOT 159
SECTION 43
P.B. 17, PG. 521
REF. DWG. LW-43M

C/L INTER. OF MISEHOUSE RD. & ROYAL OAK RD

S73°44'49"E 331.91'

CRESCENT RESOURCES, INC.
(J.F. YOUNGBLOOD)
CAT-161
D.B. 576, PG. 520
CAT-490
D.B. 3146, PG. 165

60' R/W MISEHOUSE ROAD

S72°24'11"E 123.50'

S16°14'32"E 145.22'

N77°14'47"E 284.77'

S58°26'26"E 92.35'

MISEHOUSE ROAD 60' R/W

SEWER EASEMENT FOLLOWS ROAD R/W. LIMIT

AREA WITHIN P/O. 10' SEWER LINE EASEMENT = 0.029 ACRES (1,251 SQ. FT.)

TO YOUNGBLOOD RD.

DEC OVHD DISTRIBUTION LINE

P/L. FOLLOWS ROAD R/W. LIMIT

47.61' N82°33'13"E

125.00' N82°33'13"E

S39°21'01"E 55.66'

ADDITION TO LOT 147
0.460 ACRE
(20,057 SQ. FT.)

10.00'

115.00' N07°26'47"W

88.02' S29°23'16"W

125.00' (TOTAL)

10.05'

108.86'

128.96' (TOTAL) N07°26'47"W

125.00' S82°33'13"W

125.00' S82°33'13"W

CAROLINA CENTERS, LLC
DB. 7606, PG. 475
(J.F. YOUNGBLOOD)
CAT-161
D.B. 576, PG. 520
CAT-490
D.B. 3146, PG. 165

10' SEWER EASEMENT FOR ADDITION TO LOT 147
REQUEST: 91800

ADDITION TO LOT 146
0.361 ACRE
(15,727 SQ. FT.)
REQUEST: 91800

SEWER EASEMENT FOLLOWS ROAD R/W. LIMIT

10' SEWER EASEMENT FOR ADDITION TO LOT 147
REQUEST: 91799

AREA WITHIN P/O. 10' SEWER LINE EASEMENT = 0.166 ACRE
(7,229 SQ. FT.)

AREA WITHIN 10' SEWER LINE EASEMENT FOR REC. LOT 146 = 0.165 ACRES
(7,175 SQ. FT.)
REQUEST: 91800

CRESCENT RESOURCES, INC.
(S.J. MILLER)
CAT-334
D.B. 168, PG. 446
CAT-490
D.B. 3146, PG. 165

AREA WITHIN P/O. 10' SEWER LINE EASEMENT = 0.029 ACRE
(1,274 SQ. FT.)

PASSAGE WAY 60' R/W

P/L. FOLLOWS ROAD R/W. LIMIT

ANG. I. (F) N80°04'22"E 132.87'

10.68' S28°57'00"E 183.85' (BASE BEARING) 205.21' (TOTAL)

CRESCENT RESOURCES, INC.
(S.J. MILLER)
CAT-334
D.B. 168, PG. 446
CAT-490
D.B. 3146, PG. 165
REC. LOT 146
SECTION 43
P.B. 17, PG. 519
REF. DWG. LW-43K

CRESCENT RESOURCES, INC.
(S.J. MILLER)
CAT-334
D.B. 168, PG. 446
CAT-490
D.B. 3146, PG. 165
REC. LOT 147
SECTION 43
P.B. 17, PG. 519
REF. DWG. LW-43K

10.15' 190.46' N04°53'55"E 200.61' (TOTAL)

CAROLINA CENTERS, LLC
DB. 7606, PG. 475
(S.J. MILLER)
CAT-334
D.B. 168, PG. 446
CAT-490
D.B. 3146, PG. 165

LAKE WYLIE

DUKE ENERGY CORPORATION
(S.J. MILLER)
CAT-334
D.B. 168, PG. 446

TOTAL AREA WITHIN 10' SEWER LINE EASEMENT FOR REC. LOT 147 = 0.224 ACRES (9,754 SQ. FT.)

NOTE: ALL DISTANCES ARE HORIZONAL DISTANCES UNLESS OTHERWISE NOTED.

NOTE: AREA BY COORDINATE COMPUTATION.

NOTE: PROPERTY SUBJECT TO ANY VALID & ENFORCEABLE EASEMENTS, RESTRICTIONS & RIGHTS OF WAY OF RECORD.

LEGEND

LINES SURVEYED
LINES NOT SURVEYED
TIE LINES
OVHD DISTRIBUTION LINE (OVERHEAD)
#4 REBAR(S) PK(S)
#4 REBAR(F) #3 REBAR(S)
#5 REBAR(S) CON. MON.(F)
#5 REBAR(F) CON. MON.(S)
RETAIL POWER POLE

CRESCENT RESOURCES INC.
P.O. BOX 1003
CHARLOTTE, N.C. 28201-1003

SURVEY & MAP PREPARED BY:
DUKE ENERGY CORPORATION
P.O. BOX 1007
CHARLOTTE N.C. 28201-1007
TELEPHONE: (704)382-4268

FOR SOURCE OF TITLE REFER TO DB. 3146, PG. 165

BOUNDARY SURVEY FOR
CAROLINS CENTERS, LLC
LAKE WYLIE DEVELOPMENT
BOUNDARY SURVEY OF ADDITION TO
RECREATION LOT 147
& 10' SEWER EASEMENT
STEELE CREEK TOWNSHIP
MECKLENBURG COUNTY, N.C.

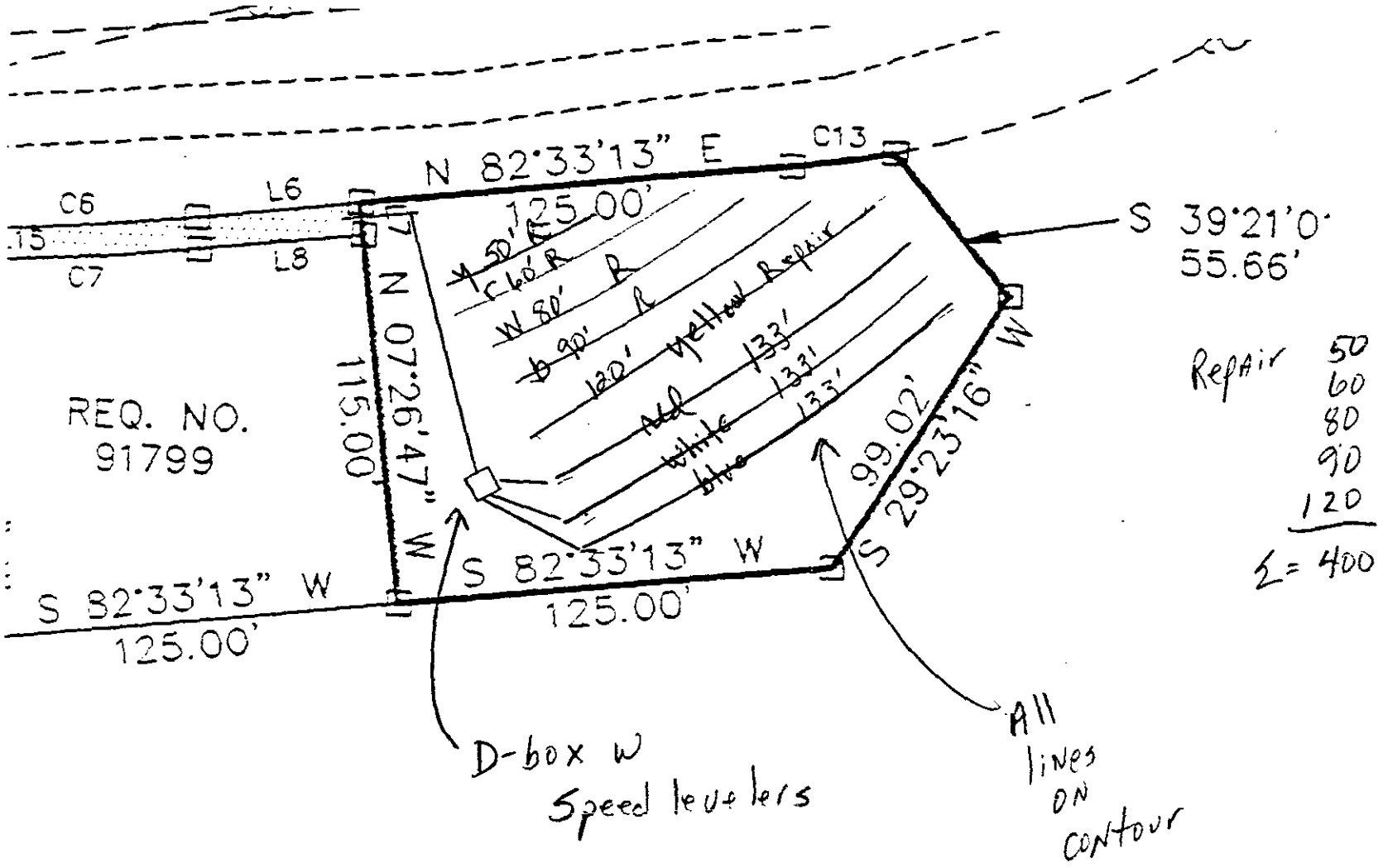
PROJECT NO. 7507	
PARCEL NO. 46668	
REQUEST NO. 91799	
CRI ID. NO. 102900	
E.C. = 1' : 10,000'+	
PER. 560', TIES 2000	
DRAWN BY: JHC	
CREW: JFMc	
DATE: 3-24-97	
CHK BY: JRH	

NEW SEPTIC R/W. REVISED PER REQUEST 94704	
REVISED BY: DLH	DATE: 6-19-97
CREW: JFMc	CHK BY: JRH
LOT 147 ADDITION REVISED PER REQUEST 92761	
REVISED BY: DLH	DATE: 5-12-97
CREW: JFMc	CHK BY: JRH

REVISED: 6-24-97
REVISED: 5-12-97
MARCH 24, 1997
REQUEST NO. 91799

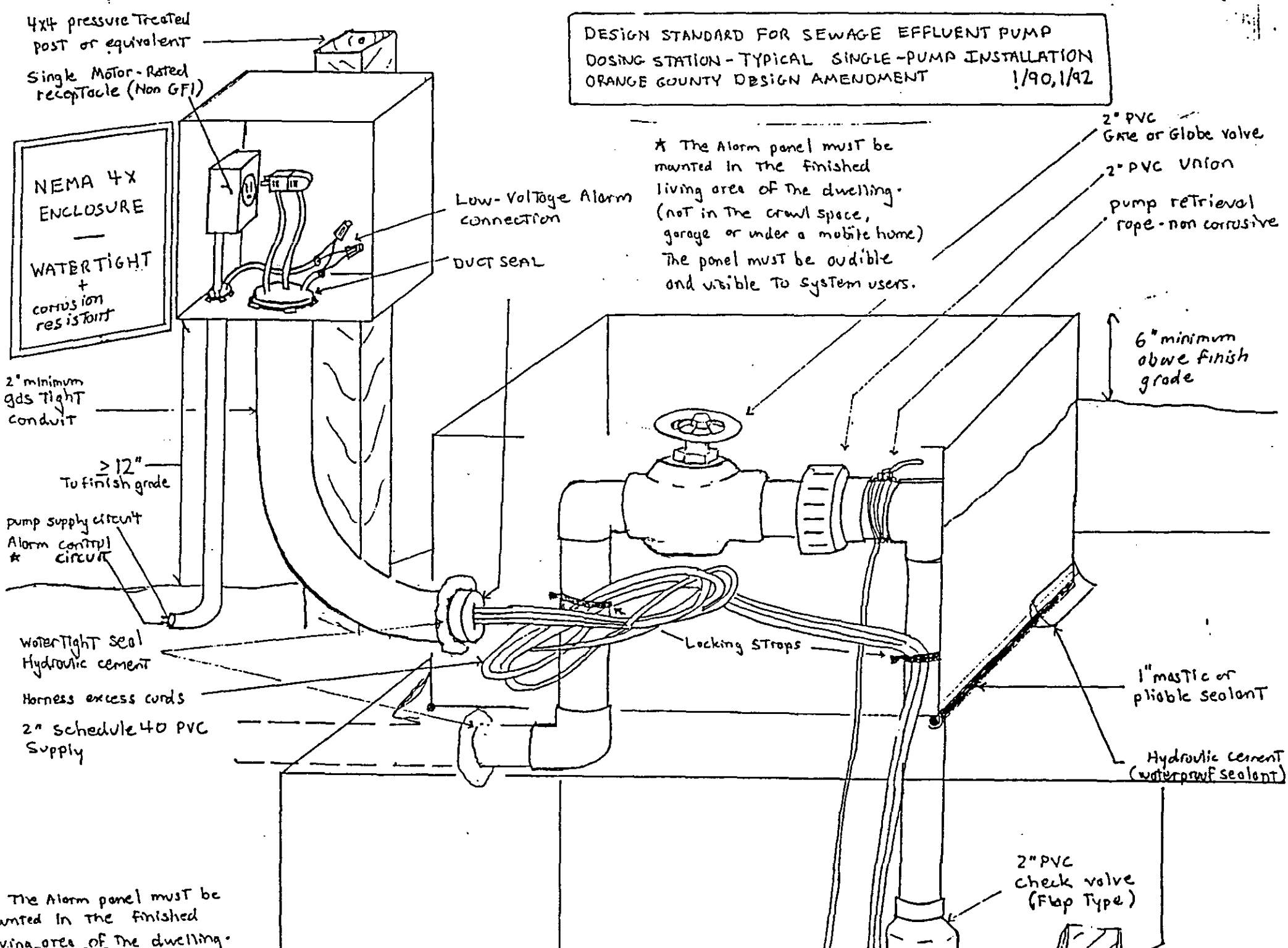
SCALE: 1" = 100'
BOOK NO. 2273

100 50 0 100 200 300
SCALE IN FEET



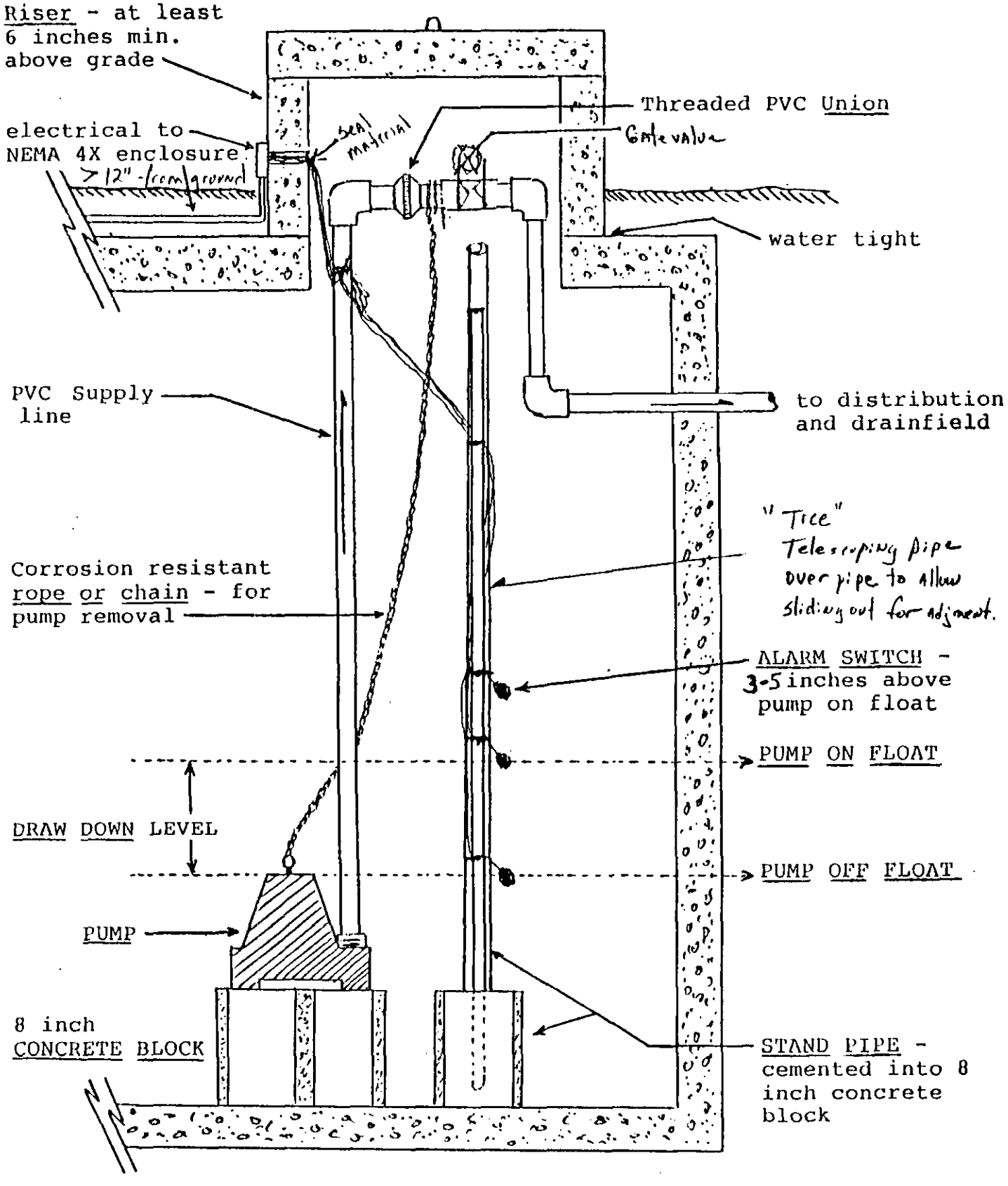
N-TERS, LLC
PG. 475

DESIGN STANDARD FOR SEWAGE EFFLUENT PUMP DOSING STATION - TYPICAL SINGLE-PUMP INSTALLATION
ORANGE COUNTY DESIGN AMENDMENT 1/90, 1/92



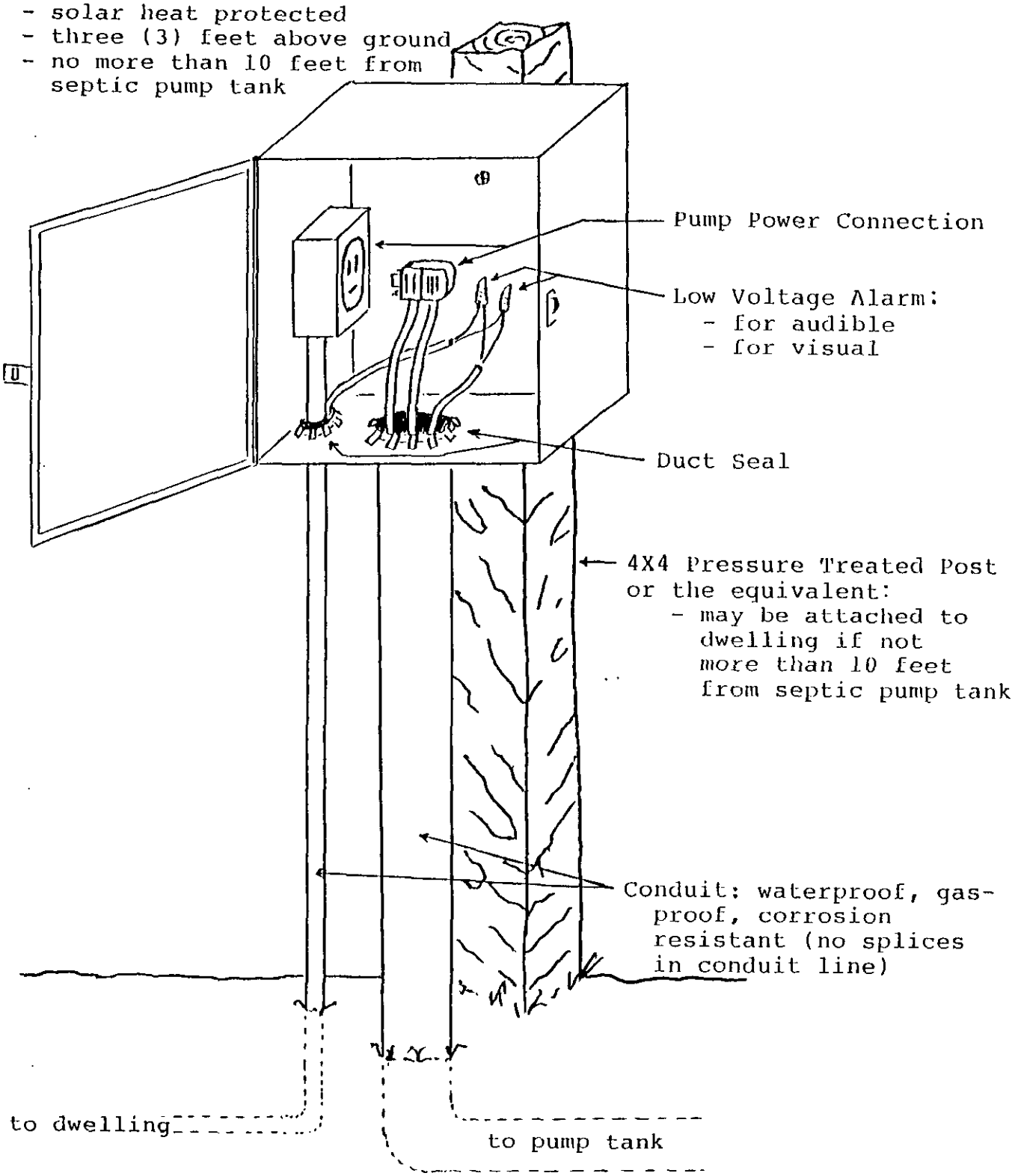
* The Alarm panel must be mounted in the finished living area of the dwelling.

PUMP DIAGRAM



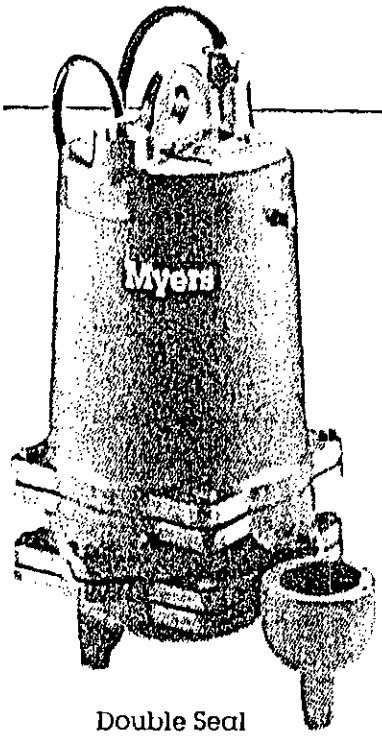
NEMA 4X ENCLOSURE must be:

- water tight
- corrosion resistant
- solar heat protected
- three (3) feet above ground
- no more than 10 feet from septic pump tank

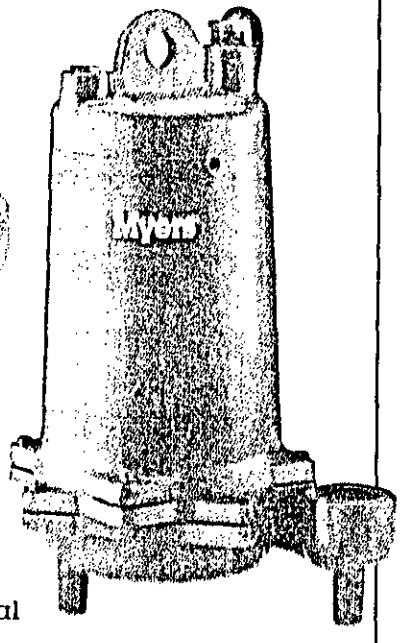


ME SERIES

1/3 through 1-1/2 HP
Effluent Pumps



Double Seal



Single Seal

THE MYERS ME SERIES EFFLUENT PUMPS ARE DESIGNED SPECIFICALLY FOR TODAY'S EFFLUENT PRESSURE DISTRIBUTION MOUNDS, TRENCHES AND HIGH FLOW DRAINAGE APPLICATIONS. The ME Series effluent pumps with their efficient two vane, enclosed impellers, provide the ideal performance for optimum dosing. ME Series pumps are constructed of only corrosion resistant materials like cast iron, stainless steel and thermoplastics to assure that they will perform for years to come in the harsh effluent environment and drainage applications. For more information, call your Myers distributor today or the Myers Ashland, Ohio sales office at 419/289-1144.

ADVANTAGES BY DESIGN

IDEAL FOR USE IN MOUND AND TRENCH PRESSURE DISTRIBUTION SYSTEMS

- High efficiency, two vane, enclosed impeller provides ideal performance for most efficient dosing.
- Impeller passes full ¾ inch solids.
- Enclosed impeller design eliminates possibility of jamming or corrosion between impeller and volute.

DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE

- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- High torque, permanent split capacitor (PSC), single phase motors. No starting switches or relays to wear out.
- Optional seal leak probe warns of seal leak condition. (Dual seal motors only.) Helps prevent costly motor damage.
- Motors have on winding current and temperature sensitive overload. (Single phase only.)

THE ME SERIES EFFLUENT PUMPS ARE DESIGNED FOR YEARS OF MAINTENANCE FREE OPERATION

- Volute seal ring is replaceable. Restores pump to original performance if wear should occur.
- Motor is held in place by 4 screws. Easily removed if service is ever needed.

PRODUCT CAPABILITIES

Capacities To	120 GPM	454 LPM
Heads To	98 ft.	29.8 m
Max. Spherical Solids	¾ in.	19 mm
Liquids Handling	domestic effluent & drain water	
Intermittent Liquid Temp.	up to 140° F	up to 60° C
Motor Electrical Data	1/3 & 1/2 HP, 115 volts, 1 ph 1/3 to 1-1/2 HP, 230 volts, 1 ph 208, 230, 460, 575 volts, 3 ph oil-filled, permanent split capacitor type, 1 ph, 3450 rpm, 60 Hz	
Motor Insulation	Class B (130°C)	
Third Party Approvals	Pending	
Acceptable pH Range	6-9	
Specific Gravity	.9-1.1	
Viscosity	28-35 SSU	
Discharge, NPT	2 in.	50.8 mm
Min. Sump Dia. Simplex Duplex	24 in. 36 in.	61 cm 91.4 cm

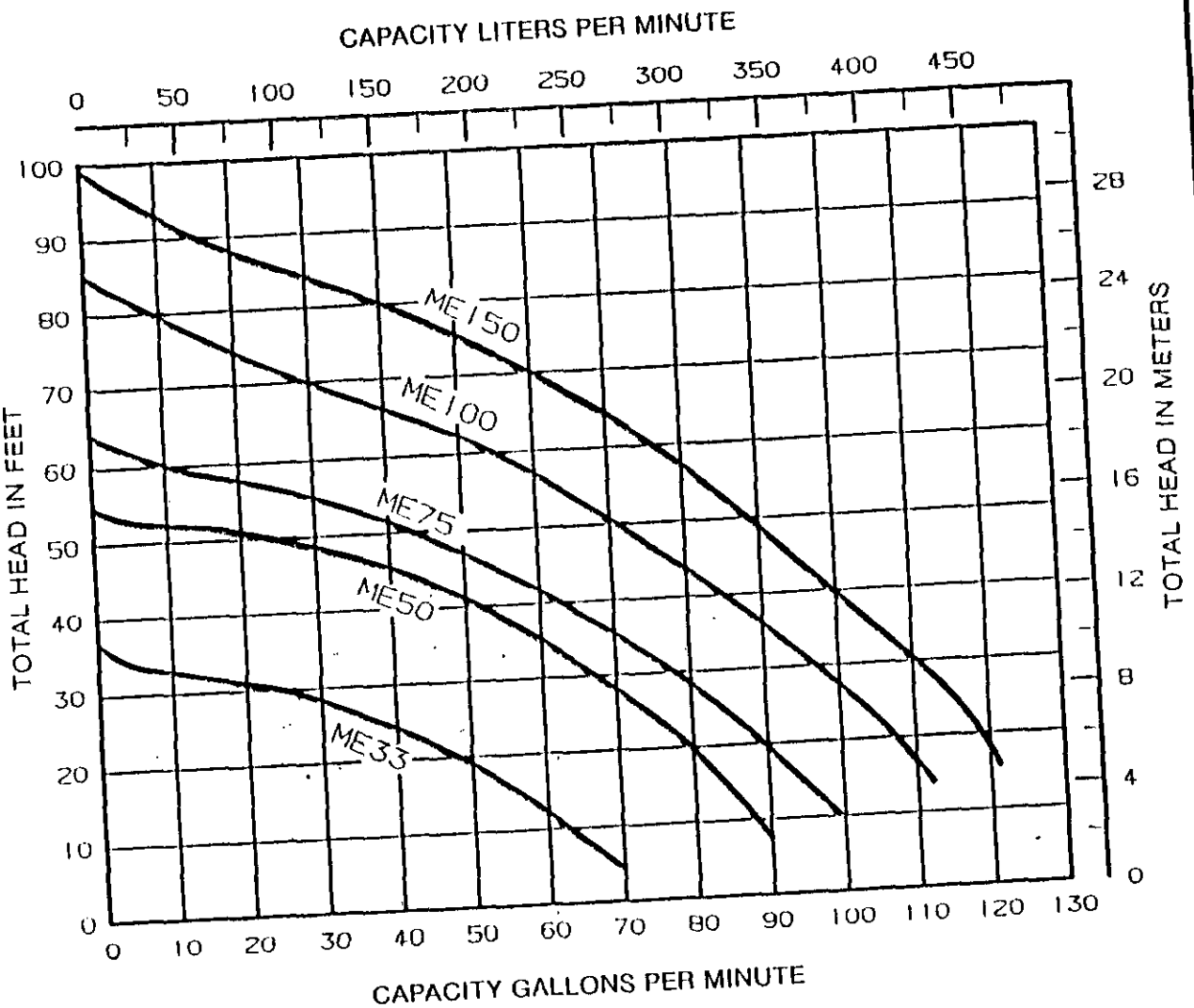
Construction Materials	
Motor Housing, Volute	cast iron, Class 30, ASTM A48-76
Enclosed Two Vane Impeller Standard Optional	engineered thermoplastic bronze
Impeller Wear Ring	304 SST
Volute Sealing Ring	Buna-N
Shaft	416 SST
Power Cord 1/3 & 1/2 HP, 1 Ph 3/4 - 1-1/2 HP, 1 Ph All 3 Ph	 20 ft. 16/3 SJOW/SJOW-A 20 ft. 14/3 SJOW/SJOW-A 20 ft. 14/4 SOW/SOW-A
Shaft Seals Standard Optional Opt. Lower	single carbon & ceramic tandem carbon & ceramic tungsten carbide
Fasteners	300 Series SST

WHERE INNOVATION MEETS TRADITION

Myers®

Myers®

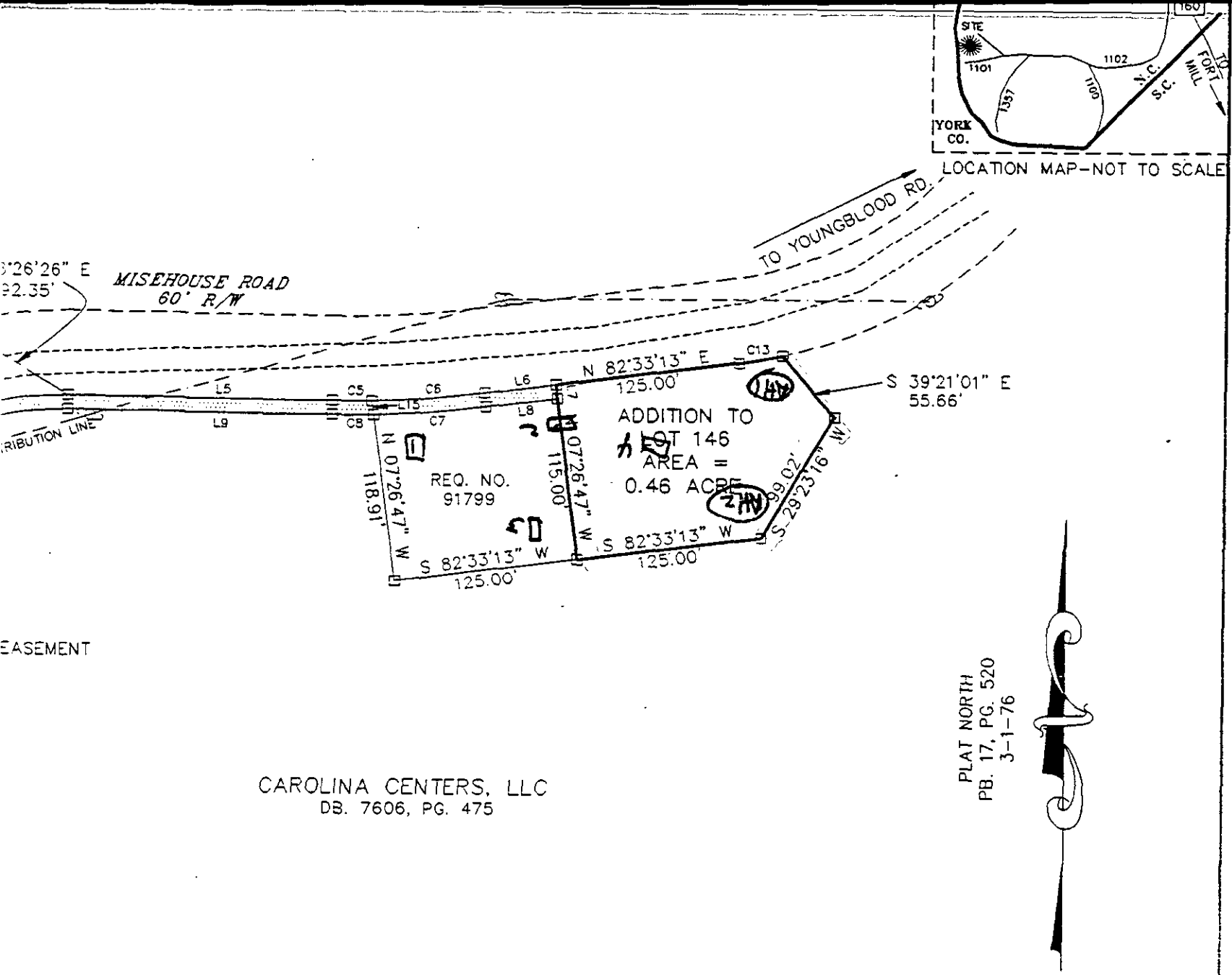
ME Series
1/3 through 1-1/2 HP
Effluent Pumps
Performance Curve



F.E. Myers, A Pentair Company • 1101 Myers Parkway, Ashland, Ohio 44805-1923
419/289-1144 FAX 419/289-6658 Telex 98-7443

Printed in U.S.A.

K3327 7/91



Pit Location + #'s

1" = 100'

original on file at MCHD (notes taken in rain)

TCJ CONSULTING

SITE / SOIL EVALUATION

JOB: LAKE WYLIE PHONE: DATE:

LOCATION: PIN: COUNTY: PROPERTY SIZE:

PROPOSED FACILITY: WATER SUPPLY: On-Site Well__ Community__ Public__ EVALUATION: Auger Boring__ Pit__ Cut__

WEATHER: ANTECEDENT MOISTURE: SURFACE WATER:

FACTORS	PROFILE 1	PROFILE 2	PROFILE 3	PROFILE 4
LANDSCAPE POSITION-%				
HORIZON I DEPTH	0-15	0-4	0-7	0-7
Color - Munsell				
Texture				
Structure				
Consistence				
Boundary				
HORIZON II DEPTH	15-24	4-33	37-36	7-14
Color - Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
HORIZON III DEPTH	24-48	33-53		14-44
Color - Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
HORIZON IV DEPTH				
Color - Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
SOIL WETNESS				
RESTRICTIVE HORIZON				
SAPROLITE				
LTAR	.3	.3		
CLASSIFICATION				

LEGEND

LANDSCAPE POSITION
R - Ridge Interfluve
S - Shoulder
L - Linear slope
S - Foot slope
N - Nose slope
H - Head slope
Cc - Concave slope
Cv - Convex slope
T - Terrace
P - Flood Plain

TEXTURE
s - sand
ls - loamy sand
sl - sandy loam
l - loam
si - silt
sil - silt loam
sicl - silty clay loam
cl - clay loam
scl - sandy clay loam
sc - sandy clay
sic - silty clay
c - clay

CONSISTENCE
MOIST / WET
Ns - non-sticky
Ss - slightly sticky
S - sticky
Vs - very sticky

Np - non-plastic
Sp - slightly plastic
P - plastic
Vp - very plastic

MOIST
vfr - very friable
fr - friable
fi - firm
vfi - very firm
efi - extremely firm

STRUCTURE
sg - single grain
m - massive
cr - crumb
gr - granular
sab - subangular blocky
ab - angular blocky
pl - platy
pr - prismatic

TCJ CONSULTING

SITE / SOIL EVALUATION

JOB:_____ PHONE:_____ DATE:_____

LOCATION:_____ PIN:_____ COUNTY:_____ PROPERTY SIZE:_____

PROPOSED FACILITY:_____ WATER SUPPLY: On-Site Well__ Community__ Public__ EVALUATION: Auger Boring__ Pit__ Cut_____

WEATHER: _____ ANTECEDENT MOISTURE:_____ SURFACE WATER: _____

FACTORS	PROFILE_ 5	PROFILE_	PROFILE_	PROFILE_
LANDSCAPE POSITION-%	12"			
HORIZON I DEPTH	0-10			
Color - Munsell	10 YR 3/2			
Texture	gr-sl loa			
Structure	fri			
Consistence				
Boundary				
HORIZON DEPTH II	10-36			
Color - Munsell	10 YR 4/4			
Texture	sl cl			
Mottles				
Structure				
Consistence				
Boundary				
HORIZON III DEPTH	36-48			
Color - Munsell	10 YR 5/6			
Texture	cl			
Mottles	common			
Structure				
Consistence				
Boundary				
HORIZON IV DEPTH				
Color - Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
SOIL WETNESS				
RESTRICTIVE HORIZON				
SAPROLITE				
LTAR	0.3			
CLASSIFICATION	Typic Hapludult			

LEGEND

LANDSCAPE POSITION
R - Ridge Interfluve
S - Shoulder
L - Linear slope
S - Foot slope
N - Nose slope
H - Head slope
Cc - Concave slope
Cv - Convex slope
T - Terrace
P - Flood Plain

TEXTURE
s - sand
ls - loamy sand
sl - sandy loam
l - loam
si - silt
sil - silty loam
sicl - silty clay loam
cl - clay loam
scl - sandy clay loam
sc - sandy clay
sic - silty clay
c - clay

CONSISTENCE
MOIST / WET
Ns - non-sticky
Ss - slightly sticky
S - sticky
Vs - very sticky

Np - non-plastic
Sp - slightly plastic
P - plastic
Vp - very plastic

MOIST
vfr - very friable
fr - friable
fi - firm
vfi - very firm
efi - extremely firm

STRUCTURE
sg - single grain
m - massive
cr - crumb
gr - granular
sab - subangular blocky
ab - angular blocky
pl - platy
pr - prismatic

Infiltrator Systems Inc., the industry leader in septic and stormwater chamber system technology.

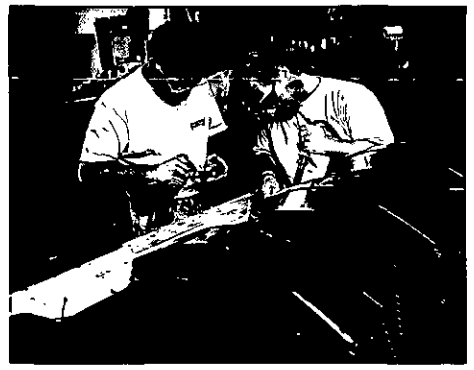
Five million chambers already in service.
In just ten years, the innovative leaching chambers of Infiltrator Systems have drastically changed the technology of on-site septic and stormwater disposal. Already, 5 million chambers have been installed in 46 states, Canada and other countries, forming over 90 million square feet of chamber systems with a success rate of 99.5%. And, we're expanding at the rate of 9,000 new systems a month.

Environmentally concerned company.
Infiltrator Systems devotes over $500,000 a year to *research and development, creating new products* that operate more and more efficiently and conserve natural resources. Besides using recycled resins, Infiltrator Systems' products take better care of the environment by avoiding the mining, crushing, grading, washing and hauling of stone, as well as the environmental impact and site disruption that stone causes. That's one of our "greener" ideas for septic and stormwater disposal that just makes sense.

Infiltrator stormwater management.
Besides our septic chamber systems, Infiltrator Systems is on the leading edge of the emerging stormwater management field. The subsurface Maximizer™ Chamber System, with its unmatched strength and practically 100% void volume, replaces ponds, large diameter pipe and stone, vaults, and dry wells. This system gives designers better solutions for both retention and detention projects, so they can fully utilize valuable above-ground land.







For a free copy of the septic installation instructions and video, call 1-800-221-4436.

Distributed By:

INFILTRATOR® SYSTEMS INC

Leading the way in septic and stormwater chamber systems℠

4 Business Park Road, P.O. Box 768
Old Saybrook, CT 06475
800-221-4436—860-388-6639—FAX-860-388-6810

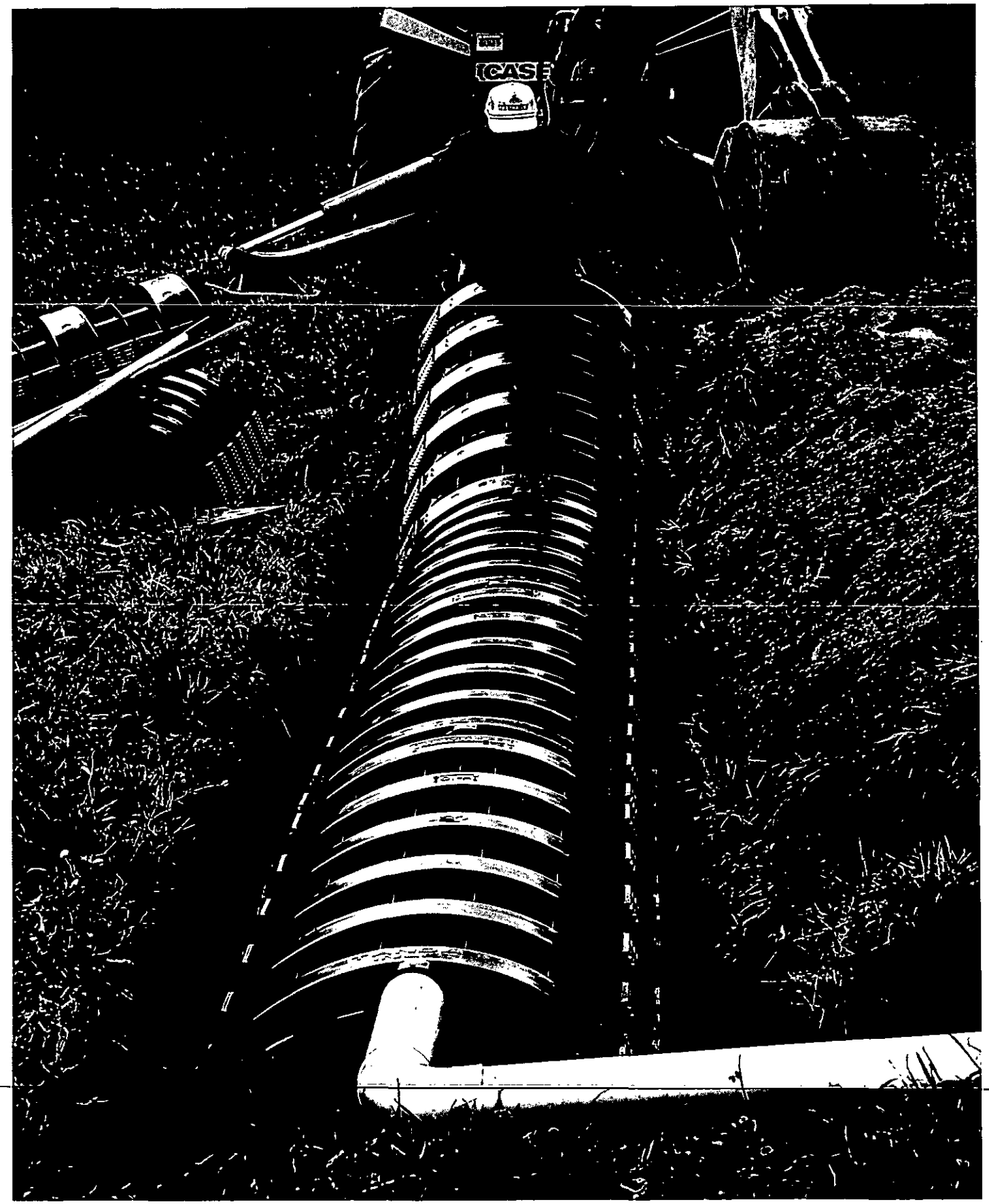
U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,588,778; 1,815,925; 1,974,938; 1,729,383; 448,338
Canadian Patents: 1,329,959; 2,004,564 Other U.S., Canadian, and foreign patents pending.

Infiltrator, Equalizer, and SideWinder are registered trademarks and the following are trademarks of Infiltrator Systems Inc.: Contour, EQ, Maximizer, MaxWin, MicroLeaching, PolyTuff, PowerArch, and SnapLock.

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The Original Infiltrator® Chamber System for Septic Leachfields.

INFILTRATOR® SYSTEMS INC

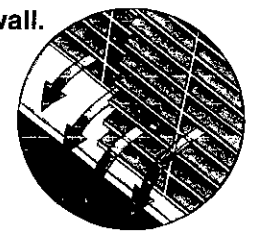


Original Standard and High Capacity Infiltrator chambers provide up to twice the infiltrative capacity of stone and pipe systems.

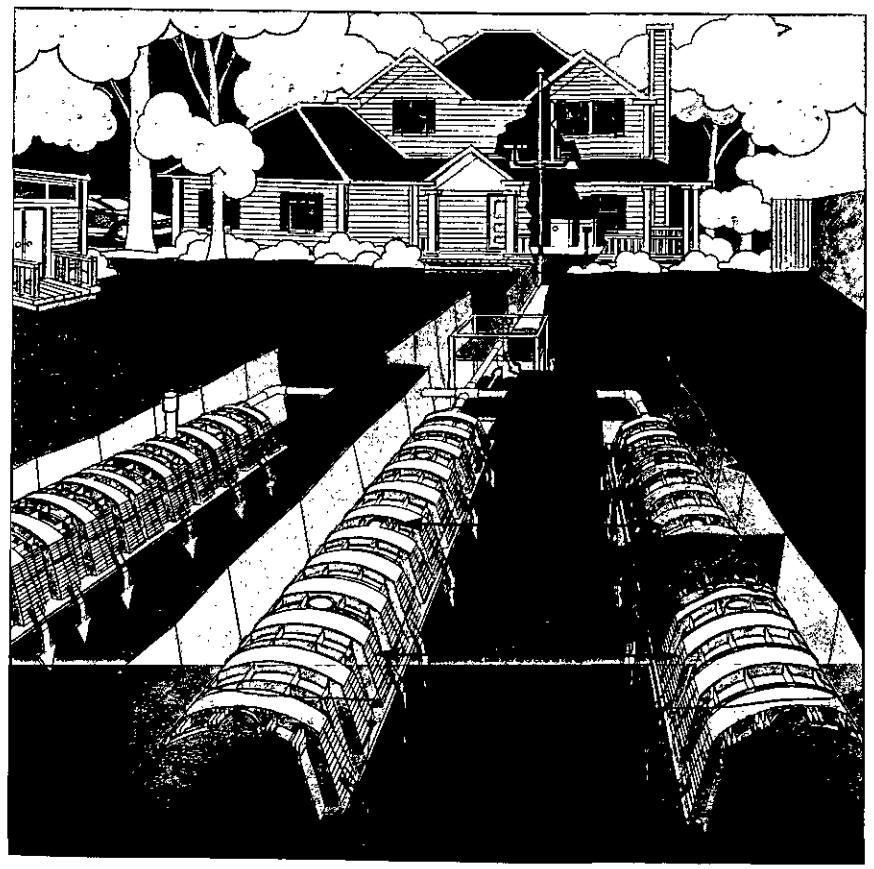
The Infiltrator Chamber System replaces old-fashioned stone and pipe leachfields with patented, high-strength polymer chambers. Both the original Standard and High Capacity chambers are designed to fit in a typical 36" wide trench. Infiltrator chambers sit directly on the trench bottom. The patented interlocks add strength and latch the chambers together quickly, end to end, so installation takes less than half the time of a laborious stone and pipe job.

Infiltrator chambers may be used for any application that is suitable for stone and pipe. However, by offering greater infiltrative capacity per linear foot, chamber systems can require as little as half the space as conventional systems.*

Patented MicroLeaching™ sidewall.
The Infiltrator chamber has an engineered, louvered sidewall that allows effluent to pass laterally into the soil. The angled louvers prevent backfill intrusion into the chamber while 1/4" slots allow lateral leaching.

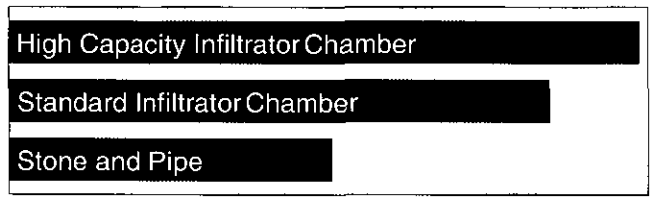


MicroLeaching sidewall



Open chamber bottom boosts infiltration.
The chamber bottom is completely open, promoting effluent infiltration into the soil with 100% efficiency. The open-bottom area, in combination with the MicroLeaching sidewall, provides maximum infiltrative capacity for long-term, trouble-free service.

LTAR (Long-Term Acceptance Rate).



This graph demonstrates the dramatic efficiency improvement in LTAR of Infiltrator chambers over stone and pipe trenches. The LTAR is a measure of the long-term ability of the system to pass effluent into the soil. For example, the High Capacity Infiltrator chamber infiltrates up to twice the effluent of a same-size stone and pipe trench. This efficiency is recognized by many state and local jurisdictions, who in turn may allow up to 50% shorter trenches.

High-density polyethylene construction.
Infiltrator chambers are molded of high-density PolyTuff™ polyethylene. This proprietary blend, including recycled resins, is formulated for optimum strength and chemical resistance. It's impervious to wastewater constituents and is stabilized to resist ultraviolet rays. Infiltrator chambers are manufactured using an exclusive patented process to assure consistent high quality.

AASHTO H-10 and H-20 load ratings.
Infiltrator chambers have been structurally tested by a registered professional engineer. Both Standard and High Capacity chambers are available with AASHTO ratings of H-10 (16,000 lb/axle with 12" of compacted cover) or H-20 (32,000 lb/axle with 18" of compacted cover).

Nominal chamber specifications.

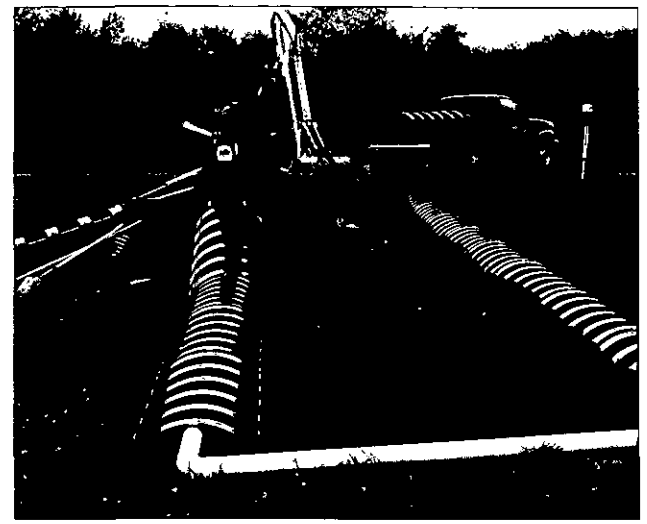
	Standard Chamber	High Capacity Chamber
Size, W x L x H	3' x 6-1/4' x 1'	3' x 6-1/4' x 1-1/3'
Weight	27 lb.	33 lb.
Capacity	77 gal. (10.3 cu. ft.)	122 gal. (16.3 cu. ft.)

* Subject to state and local regulations.

Compare the installation and operating advantages.

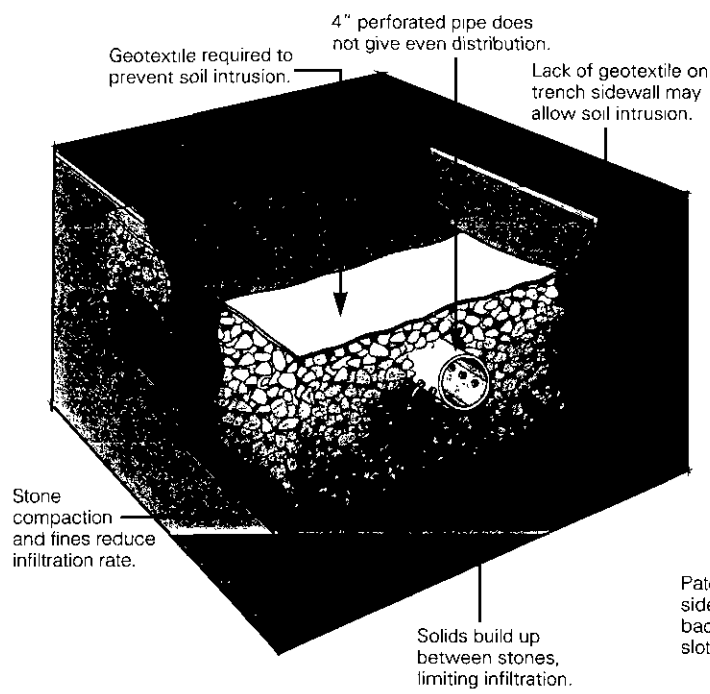


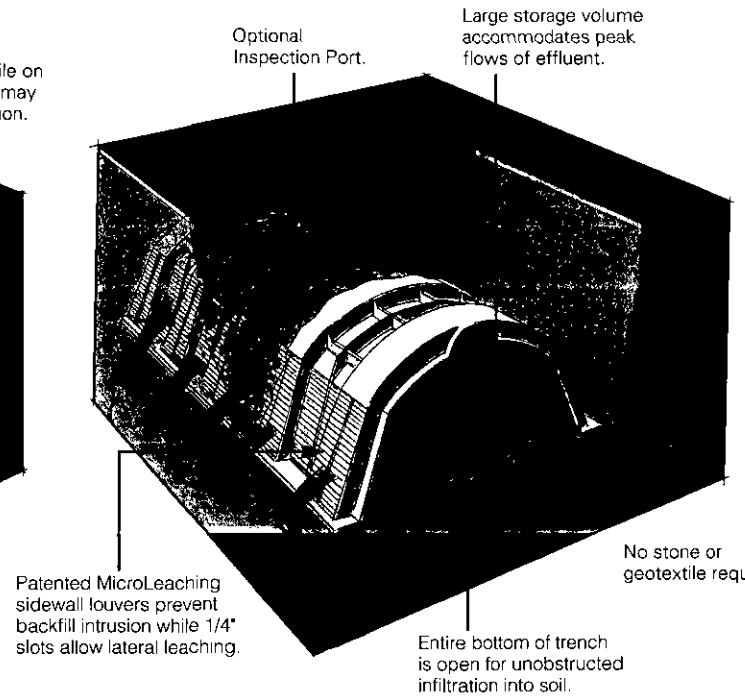
Conventional stone and pipe system



Infiltrator Chamber System

• Labor-intensive, lengthy installation.	• Easy assembly and installation by two people.
• Dump truck needed for stone delivery.	• Only a backhoe and pickup truck are required.
• Stone hauling adds expense and time, and increases soil compaction.	• Lightweight chambers can be delivered in one pickup truck load and hand-carried into position.
• Stone in trench reduces Long-Term Acceptance Rate by more than 50%.	• Entire trench bottom is open for effluent infiltration with 100% efficiency.
• Heavy traffic across yard and spilled stone mean there is more site repair needed after installation.	• There is less regrading, tree damage and landscape repair involved, and no stone cleanup.
• System lacks easy inspection and monitoring of leachfield without digging up the yard.	• Inspection port is available for easy access to leachfield with no site disruption.
• Geotextile required on top of stone.	• Solid-topped chambers need no geotextile.
• Greater overall cost.	• Lower overall cost.





FEE: 100 00
DATE: 10/27/95 CK# 5678

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

1 1 CRT

TYPE APPLICATION: ✓ NEW SYSTEM ___ EXPANSION 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 #: 4368 3812B

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION: ✓

TAX/PARCEL NUMBER: ✓ 217 - 201 - 03

STREET ADDRESS: ✓ 18225 Passageway

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER: ✓ 3

TYPE OF BUILDING, (CHECK ONE) ✓

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

TOWNSHIP (CHECK ONE): ✓

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

HEATED SQUARE FOOTAGE: ✓

NUMBER OF BEDROOMS: ✓ 3

NUMBER OF OCCUPANTS: ✓

FOUNDATION FOR RESIDENCE: ✓

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

IF EXPANSION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED ADDITION:

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

WATER SUPPLY (CHECK ONE): ✓

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

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

BURIED CABLES, LANDFILLS, STUMPHOLES	___ YES ___ NO	WELL SPRINGS OR WATERLINES.	___ YES ___ NO
EXISTING WASTE WATER SYSTEMS	___ YES ___ NO	DESIGNATED WETLANDS	___ YES ___ NO
EASEMENTS OR RIGHT-OF-WAYS	___ YES ___ NO		

PROPERTY OWNER: ✓

NAME: Hartsell Gene W
(LAST) (FIRST) (MI)

ADDRESS: 140 Lake Concord Rd C-6

CITY: Concord STATE: NC ZIP: 28025

DAYTIME PHONE: ( ) -

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE: ✓

NAME: White Joyce
(LAST) (FIRST) (MI)

DAYTIME PHONE: ( ) -

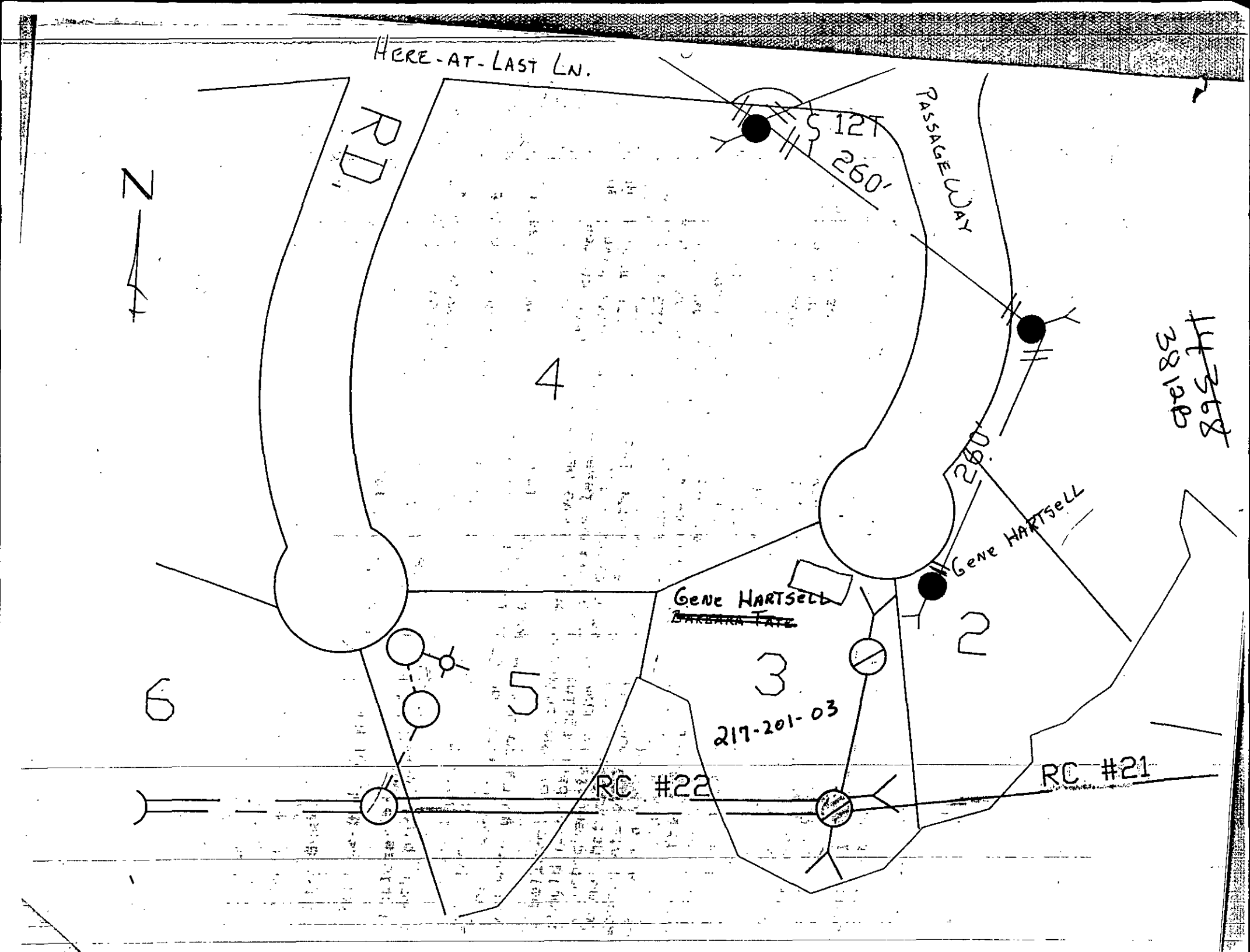
140 Lake Concord Rd C-6
Concord, NC 28025

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____

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.

565-7726 Pager

SIGNED: ✓ Billie m Biggers 831-1185 Office DATE: ✓ 10-27-95


HERE-AT-LAST LN.
RD.
N
12T
260'
PASSAGEWAY
4
260'
GENE HARTSELL
GENE HARTSELL
BARBARA TATE
2
3
5
6
217-201-03
RC #22
RC #21
38 28
44 28

PROPOSED PLOT PLAN

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON STREET
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 14368

TC: _____

Draw in and name all roads adjoining the property. Draw in and accurately dimension the lot concerned. Accurately indicate property boundaries proposed and/or existing structures and driveways, underground utilities, and wells and springs within 100 feet of the proposed building or drainfield.

"SEE Attached"

APPROVAL DATE _____

OWNER/AGENT SIGNATURE

DATE

White - Health Department's Copy Canary - E.H.S. Copy Pink - Owner's Copy

Mecklenburg County
Health Department

November 21, 1995

Mr. Gene Hartsell
140 Lake Concord C-6
Concord, NC 28025

Re: 18225 Passage Way Court
File: 3812B
Parcel: 217-201-03B

Dear Mr. Hartsell:

Receipt of your Application for Improvement Permit for the above referenced property is acknowledged. A soil evaluation and a site visit have been conducted. The results of the evaluation indicated that the site is **UNSUITABLE** under Rules .1941 **SOIL CHARACTERISTICS (MORPHOLOGY)**, .1942 **SOIL WETNESS CONDITIONS**, and .1943 **SOIL DEPTH**. For these reasons your Application for Improvement Permit is denied. A possible way to develop the site exists under Rule .1948(d) which reads as follows:

> A site classified as **UNSUITABLE** may be used for a ground absorption sewage treatment and disposal system specifically identified in Rules .1955, .1956, or .1957 of this Section or a system approved under Rule .1969 if written documentation, including engineering, hydrogeologic, geologic or soil studies, indicates to the local Health Department that the proposed system can be expected to function satisfactorily. Such sites shall be reclassified as **PROVISIONALLY SUITABLE** if the local health department determines that the substantiating data indicated that:
> (1) a ground absorption system can be installed so that the effluent will be non-pathogenic, non-infectious, non-toxic, and non-hazardous;
> (2) the effluent will not contaminate groundwater or surface water, and
> (3) the effluent will not be exposed on the ground surface or be discharged to the surface waters where it could come in contact with people, animals, or vectors.

The state shall review the substantiating data if requested by the local health department.

Please be advised that you have the right to an informal review by this department. You also have the right to appeal under G.S. 130A-24, and to have the appeal held in Mecklenburg County.

If you have any questions regarding this matter please do not hesitate to call me at 336-5575.

Sincerely,

Kelly Randall, R.S., Soil Scientist
Individual Water and Wastewater Systems

KR:gf

Mecklenburg County
Health Department

mr Gene Hartsell
140 Lake Concord C-6
Concord NC 28025

Re: 10219 Passage Way Ct
File: 14368
Parcel: 217-201-02

Dear mr Hartsell

Receipt of your Application for Improvement Permit for the above referenced property is acknowledged. A soil evaluation and a site visit have been conducted. The results of the evaluation indicated that the site is UNSUITABLE under Rules .. over For these reasons your Application for Improvement Permit is denied. A possible way to develop the site exists under Rule .1948(d) which reads as follows:

> A site classified as **UNSUITABLE** may be used for a ground absorption sewage treatment and disposal system specifically identified in Rules .1955, .1956, or .1957 of this Section or a system approved under Rule .1969 if written documentation, including engineering, hydrogeologic, geologic or soil studies, indicates to the local health department that the proposed system can be expected to function satisfactorily. Such sites shall be reclassified as **PROVISIONALLY SUITABLE** if the local health department determines that the substantiating data indicate that:
> (1) a ground absorption system can be installed so that the effluent will be non-pathogenic, non-infectious, non-toxic, and non-hazardous;
> (2) the effluent will not contaminate groundwater or surface water; and
> (3) the effluent will not be exposed on the ground surface or be discharged to surface waters where it could come in contact with people, animals, or vectors.

The State shall review the substantiating data if requested by the local health department.

Please be advised that you have the right to an informal review by this department. You also have the right to appeal under G.S. 130A-24, and to have the appeal held in Mecklenburg County.

If you have any questions regarding this matter, please call me at 336-5575.

Sincerely,

Kelly Randall

Kelly Randall, R.S., Soil Scientist
Individual Water and Wastewater Systems

.1941 SOIL CHARACTERISTICS (MORPHOLOGY), .1942 WETNESS CONDITIONS, and .1943 SOIL DEPTH

BK: 08048 PG: 0417/0425 #:0186 27.15
JUDITH A GIBSON REG OF DEEDS MECK NC
FILED FOR REGISTRATION 02/02/95 12:46

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

DURABLE POWER OF ATTORNEY

ARTICLE I
APPOINTMENT OF ATTORNEY-IN-FACT

I, **GENE "GABE" WESLEY HARTSELL**, of Charlotte, Mecklenburg County, North Carolina, appoint my fiance, **JOYCE WHITE**, as my Attorney-in-Fact for the purposes set out below. My Attorney-in-Fact shall have the right to appoint without court order a successor individual or corporate Attorney-in-Fact in a writing signed by the Attorney-in-Fact and acknowledged before a notary public which states the event or events upon which the successor Attorney-in-Fact shall act.

ARTICLE II
GENERAL GRANT OF POWERS TO ATTORNEY-IN-FACT

I grant to my Attorney-in-Fact the power to do and perform in a fiduciary capacity as my Attorney-in-Fact may deem advisable anything of any character which I might do or perform for myself if personally present and acting, including, but not limited to, the specific powers set forth below in Articles III, IV and V, but excluding those matters which my Attorney-in-Fact is not permitted to do as expressly provided in this Power of Attorney or as provided by law.

ARTICLE III
SPECIFIC POWERS RELATING TO PROPERTY

My Attorney-in-Fact may exercise the following powers relating to my property or interests in property which I now own or may hereafter acquire:

A. **Collection of Property**. The power to demand, sue for or use other lawful means to obtain, collect, and take possession and control of any sums of money, debts, checks, accounts, interest, dividends, annuities, rents, goods, chattels, inheritances, insurance benefits, social security benefits, unemployment benefits, veteran's benefits and

Ed Fiorella
Return to: Joyce White
140 Uk Concrete Rd C.6

any other claims and rights whatsoever which are now or may hereafter become due, owing, payable or belonging to me, and to compromise, settle, arbitrate, abandon or otherwise deal with any such claims;

B. **Sale or Other Disposition of Property**. The power to sell, exchange, quitclaim, convert, partition, grant an option on, abandon or otherwise dispose of all or any part of my real or personal property or my interest in such property, including, but not limited to, automobiles, stocks, bonds, and real estate owned by me individually, as a tenant in common, tenant by the entirety or otherwise, upon any terms and conditions;

C. **Acquisition and Retention of Investments**. The power to acquire and retain for any period of time as investments, without diversification as to kind or amount, any real or personal property, or interest in such property, including an undivided, temporary or remainder interest, income or non-income producing, located within or outside the United States, and including, but not limited to, notes, U.S. Treasury Bonds redeemable at par in payment of federal estate tax, any other bonds, debentures, mortgages and other obligations, secured or unsecured, common and preferred stocks, mutual funds, legal and discretionary trust funds, general and limited partnership interests, leases and securities of any corporate Attorney-in-Fact or any corporation owning stock of the corporate Attorney-in-Fact or of any subsidiary or affiliate of or successor to such corporation;

D. **Management of Property**. The power to take possession, custody, control and otherwise manage any of my real or personal property, or my interest in such property, including, but not limited to, the power (i) to protect, develop, subdivide and consolidate such property, (ii) to lease such property upon any terms and conditions including options to renew or purchase and for any period or periods of time and to modify, renew or extend any existing leases, (iii) to erect, repair, or make improvements to any building or other property and to remove existing structures, (iv) to establish and maintain reserves for the maintenance, protection and improvements of such property and for other purposes, (v) to initiate or continue farming, mining or timber operations on such property, (vi) to purchase and carry casualty and liability insurance, (vii) to grant or release easements with respect to such property, (viii) to dedicate or withdraw from dedication such property from public use, and (ix) to join with co-owners in exercising any such powers;

E. **Business Interests**. The power to continue to own, or to form initially, and operate any business interest, whether in the form of a proprietorship, corporation, general or limited partnership, joint venture or other organization, including, but not limited to, the power (i) to effect incorporation, dissolution or other change in the form of the organization of such business interest, (ii) to dispose of any part of such business interest or acquire the interest of others, (iii) to continue, enter into, modify or terminate any agreements relating to any such business interest, and (iv) to invest capital or additional capital in or lend money to such business interest;

F. **Borrowing Money**. The power (i) to borrow money for my benefit from my Attorney-in-Fact, individually, or from others, upon any terms and conditions, (ii) to secure the payment of any amount so borrowed by mortgaging, pledging or otherwise encumbering any of my real or personal property, or my interest in such property, and (iii) to modify, renew or extend the time for payment of any obligation, secured or unsecured, payable by me for any period or periods of time and upon any terms and conditions;

G. **Lending Money**. The power (i) to lend money to any person upon any terms and conditions, (ii) to modify, renew or extend the time for payment of any obligation, secured or unsecured, payable to me for any period or periods of time and upon any terms and conditions, and (iii) to foreclose as an incident to the collection of any obligation, any deed of trust or other lien securing such obligation, to bid on the property at such foreclosure sale or otherwise acquire the property without foreclosure and to retain the property so obtained;

H. **Holding Property in Nominee Form**. The power to register and hold any securities or other property in the name of a nominee or in any other form without disclosure of the agency relationship, or to hold the same in such form that they will pass by delivery;

I. **Exercise of Security Rights**. With regard to securities of mine, including stocks, bonds and any evidence of indebtedness, the power (i) to vote any such securities in person or by special, limited or general proxy at any shareholders' meeting, (ii) to consent to or participate in any contract, lease, mortgage, foreclosure, voting trust, purchase, sale or other action by any corporation, company or association, (iii) to consent to or participate in, facilitate and implement any plan of incorporation, reincorporation, reorganization, consolidation, merger, liquidation, readjustment or other similar plan with respect to any such corporation, company or association, and (iv) to exercise all options, rights and privileges, including the exercise or sale of conversion, subscription or other rights of whatever nature pertaining to any such securities and to subscribe for additional securities or other property;

J. **Gifts**. The power to make gifts of my real or personal property or my interest in such property to my children and grandchildren, including any child or grandchild of mine who may be acting as my Attorney-in-Fact, in amounts not to exceed the annual exclusion for federal gift tax purposes at the time the gifts are made and in such manner as my Attorney-in-Fact may deem appropriate, including, but not limited to, outright gifts, gifts in trust, or gifts to a custodian under a uniform gifts or transfers to minors act, if, in the opinion of my Attorney-in-Fact, such gifts are advisable for tax purposes and the value of my remaining property is more than sufficient to provide for the continued support and medical care of my spouse, my dependents and me in accordance with our customary standard of living;

K. **Transfer of Property to and Withdrawal of Property from Revocable Trust.** The power to assign, transfer and convey all or any part of my real or personal property, or my interest in such property, to, and withdraw such property from, (i) any revocable trust established by me during my lifetime, or (ii) any revocable trust established by my Attorney-in-Fact during my lifetime which directs the trustee or trustees to administer the trust for my benefit and to distribute the trust property to my estate upon my death;

L. **Renunciations.** The power to renounce or disclaim in whole or in part the right of succession to any real or personal property or interest in such property passing to me as an heir or beneficiary under a will or otherwise when in the opinion of my Attorney-in-Fact a renunciation or disclaimer is advisable for tax purpose.

ARTICLE IV
SPECIFIC POWERS RELATING TO SUPPORT, PERSONAL AFFAIRS AND HEALTH CARE

My Attorney-in-Fact may exercise the following powers relating to support, personal affairs and health care:

A. **Support.** The power to do any acts, including disbursing of any monies belonging to me, which, in the opinion of my Attorney-in-Fact, may be necessary or proper for any purpose in connection with the support and maintenance of my spouse, my dependents and me in accordance with our customary standard of living, including, but not limited to, provisions for housing, clothing, food, transportation, recreation, education and the employing of any person whose services may be needed for such purposes;

B. **Personal Affairs.** The power to do any acts, including the disbursing of any monies belonging to me, which, in the opinion of my Attorney-in-Fact, may be necessary or proper in connection with the conduct of my personal affairs, including, but not limited to, (i) continuation, use or termination of any charge or credit accounts, (ii) payments or contributions to any charitable, religious or educational organizations, (iii) dealing with my mail and representing me in any matter concerning the U.S. Postal Service, (iv) continuation or discontinuation of my membership in any club or other organization, and (v) acceptance or resignation, on my behalf, from any offices or positions which I may hold including any fiduciary positions;

C. **Health Care.** The power to disburse any monies belonging to me, which, in the opinion of my Attorney-in-Fact, may be necessary or proper for any purpose in connection with the health care of my spouse, my dependents and me, that is, any care, treatment, service or procedure to maintain, diagnose, treat, or provide for my physical or mental health or personal care and comfort and that of my spouse and dependents,

including, but not limited to, the power to pay for the charges of health care providers, such as any physician, dentist, or podiatrist and any hospital, nursing or convalescent home, or other institution.

ARTICLE V
MISCELLANEOUS SPECIFIC POWERS

My Attorney-in-Fact may exercise the following miscellaneous powers:

A. **Tax Matters**. The power to perform any and all acts that I might perform with respect to any and all federal, state, local and foreign taxes, for prior tax years as well as for tax years ending subsequent to the date of this power of attorney, including, but not limited to, the power (i) to make, execute and file returns, amended returns, powers of attorney, and declarations of estimated tax, joint or otherwise, (ii) to represent me before any office of the Internal Revenue Service or other taxing authority with respect to any audit or other tax matter involving any tax year or period, (iii) to receive confidential information, (iv) to receive, endorse, and collect checks refunding taxes, penalties or interest, (v) to execute waivers of restrictions on assessment or collection of deficiencies in tax, (vi) to execute consents extending the statutory period for assessment or collection of taxes, (vii) to execute and prosecute protests or claims for refund or applications for correction of assessed value, (viii) to execute closing agreements, (ix) to prosecute, defend, compromise or settle any tax matter, and (x) to delegate authority to or substitute another agent or attorney respecting any such taxes or tax matters;

B. **Banking Transactions**. The power (i) to make deposits in or withdrawals from any account of mine in any banking, trust or investment institution, whether such account is in my name or in the joint names of myself and any other person, (ii) to open any account or interest with any such institution in my name or in the name of my Attorney-in-Fact or in our names jointly, (iii) to endorse any checks or negotiable instruments payable to me for collection or deposit to such accounts and to sign, execute and deliver checks or drafts on such accounts, and (iv) to exercise any right, option or privilege pertaining to any account, deposit, certificate of deposit, or other interest with any such institution;

C. **Safe Deposits**. The power (i) to have access to any safe deposit box held in my name or in the joint names of myself and any other person, (ii) to lease one or more safe deposit boxes for safekeeping of my assets, and (iii) to deal with the contents of any safe deposit box, including the removal of such contents;

D. **Legal and Other Actions**. The power to cause to be commenced, prosecuted, defended, appealed, compromised, settled, arbitrated or discontinued in my

name as plaintiff or defendant, as the case may be, any legal or equitable proceedings, judicial or administrative;

E. **Employment of Advisors**. The power to employ persons, firms and corporations to advise or assist my Attorney-in-Fact, including, but not limited to, agents, accountants, auditors, brokers, attorneys-at-law, custodians, investment counsel, rental agents, realtors, appraisers and tax specialists; and

F. **Legal Documents**. The power to make, execute, endorse, acknowledge, and deliver any and all instruments under seal, oath, verification or otherwise, including, but not limited to, receipts, endorsements, releases, compromises, deeds, leases, mortgages, deeds of trust, security agreements, contracts, assignments, options, stock powers, proxies, promissory notes, bonds, financing statements, subordination agreements, checks, negotiable instruments and satisfactions of mortgages, deeds of trust and security agreements.

ARTICLE VI
RESTRICTIONS ON EXERCISE OF POWERS BY ATTORNEY-IN-FACT

Notwithstanding the grant of powers in this Power of Attorney, my Attorney-in-Fact shall have no power (i) to deal with insurance policies I may own on the life of an Attorney-in-Fact, or (ii) except as specifically authorized by this Power of Attorney, to cause assets to pass to my Attorney-in-Fact or in discharge of the legal obligations of my Attorney-in-Fact, whether by inter vivos transfer, designation of beneficiary of any contract or in any other manner.

ARTICLE VII
EFFECT OF SUBSEQUENT DISABILITY OF PRINCIPAL

This Power of Attorney is executed pursuant to Article 2 of Chapter 32A of the General Statutes of North Carolina and shall not be affected by my subsequent incapacity or mental incompetence.

ARTICLE VIII
ADMINISTRATIVE PROVISIONS

A. **Guardianship Provision**. If it becomes necessary for a court to appoint a guardian of my property, I nominate my Attorney-in-Fact acting under this document to be the guardian of my property, to serve without bond or security.

B. **Accountings**. It shall be the duty of my Attorney-in-Fact to keep full and accurate inventories and accounts of all transactions for me as my agent. Such inventories and accounts shall be made available for inspection upon request by me or by my guardian or personal representative. My Attorney-in-Fact shall not be required to file any inventory or accounts with any court or clerk.

C. **Reliance of Third Parties on Attorney-in-Fact.**

1. No person who relies in good faith upon the authority of or any representations by my Attorney-in-Fact shall be liable to me, my estate, my heirs, successors, assigns, or personal representatives, for actions or omissions by my Attorney-in-Fact.

2. The powers conferred on my Attorney-in-Fact by this document may be exercised by my Attorney-in-Fact alone, and my Attorney-in-Fact's signature or act under the authority granted in this document may be accepted by persons as fully authorized by me and with the same force and effect as if I were personally present, competent, and acting on my own behalf. All acts performed in good faith by my Attorney-in-Fact pursuant to this Power of Attorney are done with my consent and shall have the same validity and effect as if I were present and exercised the powers myself, and shall inure to the benefit of and bind me, my estate, my heirs, successors, assigns, and personal representatives. The authority of my Attorney-in-Fact pursuant to this Power of Attorney shall be superior to and binding upon my family, relatives, friends, and others.

D. **Removal and Resignation of Attorney-in-Fact**. I shall have the right to remove an Attorney-in-Fact at any time in a writing signed by me and acknowledged before a notary public and delivered to the Attorney-in-Fact in person or to such person's last known address by certified or registered mail, return receipt requested. An Attorney-in-Fact shall have the right to resign in a writing signed by the Attorney-in-Fact and acknowledged before a notary public and delivered to me and to any other Attorney-in-Fact acting under this Power of Attorney or, if none, to the named successor Attorney-in-Fact, if any, in person or to such person's last known address by certified or registered mail, return receipt requested.

E. **Partial Invalidity**. If any part of this Power of Attorney is declared invalid or unenforceable under applicable law, such decision shall not affect the validity of the remaining parts.

F. **Revocation of Power of Attorney**. If this Power of Attorney has not been registered in an office of the register of deeds in any county in North Carolina, then in addition to the methods of revocation provided by section 32A-13(b) of the General Statutes of North Carolina, this Power of Attorney may be revoked by my executing and acknowledging, in the manner provided for execution of durable powers of attorney in

Article 2 of Chapter 32A of the General Statutes of North Carolina, a subsequent Power of Attorney, a copy of which is delivered to the Attorney-in-Fact acting under this Power of Attorney in person or to such person's last known address by certified or registered mail, return receipt requested.

G. **Duty and Limited Liability of Attorney-in-Fact**. This Power of Attorney does not impose a duty on my Attorney-in-Fact to exercise granted powers, but when a power is exercised, my Attorney-in-Fact shall use due care to act in my best interests and in accordance with this document. My Attorney-in-Fact and my Attorney-in-Fact's estate, heirs, successors and assigns are hereby released and forever discharged by me, my estate, my heirs, successors and assigns and personal representatives from all liability and from all claims or demands of all kinds arising out of the acts or omissions of my Attorney-in-Fact pursuant to this document, except for willful misconduct or gross negligence.

H. **Relation of Attorney-in-Fact to Health Care Agent**. Any decision affecting my property or financial affairs, including a decision as to the disbursement of monies belonging to me, which is made by my Health Care Agent appointed pursuant to a Health Care Power of Attorney meeting the requirements of Article 3 of Chapter 32A of the General Statutes of North Carolina shall be superior to and binding upon my Attorney-in-Fact acting under this Power of Attorney, and my Attorney-in-Fact acting under this General Power of Attorney shall not be required to inquire into whether any such decision is necessary to exercise powers relating to health care, or whether costs incurred by the Health Care Agent are reasonable, and shall not be liable to me, my estate, my heirs, successors and assigns and personal representatives for any acts or omissions arising from any such decision.

I have signed and sealed this Power of Attorney this 27th day of January, 1995.

Gene W. Hartsell (SEAL)
GENE "GABE" WESLEY HARTSELL

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

On this 27th day of January, 1995, personally appeared before me, the said named **GENE "~~CABE~~" ~~WESLEY~~ HARTSELL,** to me known and known to me to be the person described in and who executed the foregoing instrument and he acknowledged that he executed the same, and being duly sworn by me, made oath that the statements in the foregoing instrument are true.

Carolyn W Rabon
Notary Public

My Commission Expires:

10-6-96

SEAL
CAROLYN W. RABON
NOTARY PUBLIC
CABARRUS COUNTY, N.C.

State of North Carolina, County of Mecklenburg
The foregoing certificate(s) of Carolyn W. Rabon
Notary(ies) Public is/are certified to be correct. This 2nd day of February 1995.
JUDITH A. GIBSON, REGISTER OF DEEDS By: Valerie F. White Deputy Register of Deeds