

Initial Application Date: 1/15/08

Application # 0850019197

CU _____

COUNTY OF HARNETT RESIDENTIAL LAND USE APPLICATION

Central Permitting 108 E. Front Street, Lillington, NC 27546 Phone: (910) 893-7525 Fax: (910) 893-2793 www.harnett.org

LANDOWNER: Best Value / NEW GENERATION Mailing Address: 1739 Hanover Rd

City: Burlington State: NC Zip: 27215 Home #: 336 228 1988 Contact #: John Craddock

APPLICANT*: NEW GENERATION Mailing Address: 1739 Hanover Rd

City: Burlington State: NC Zip: 27215 Home #: _____ Contact #: _____

*Please fill out applicant information if different than landowner
CONTACT NAME APPLYING IN OFFICE: JOHN CRADDOCK Phone #: 336 228 1988

PROPERTY LOCATION: Subdivision: CAPTAINS LANDING Lot #: 6m8m Lot Size: 1.372

State Road #: _____ State Road Name: Burgandy ST Map Book & Page: 2006/492

Parcel: 050613 0070 PIN: 0613-53-3799.000

Zoning: BA30 Flood Zone: N/A Watershed: N/A Deed Book & Page: 2406/450 Power Company: ?

SPECIFIC DIRECTIONS TO THE PROPERTY FROM LILLINGTON: Attached

PROPOSED USE:

(Include Bonus room as a bedroom if it has a closet)

Circle:

- SFD (Size _____ x _____) # Bedrooms _____ # Baths _____ Basement (w/wo bath) _____ Garage _____ Deck _____ Crawl Space / Slab _____
- Mod (Size _____ x _____) # Bedrooms _____ # Baths _____ Basement (w/wo bath) _____ Garage _____ Site Built Deck _____ ON Frame / OFF _____
- Manufactured Home: SW DW TW (Size 27 x 72) # Bedrooms 4 Garage _____ (site built? _____) Deck (site built? Y)
- Duplex (Size _____ x _____) No. Buildings _____ No. Bedrooms/Unit _____
- Home Occupation # Rooms _____ Use _____ Hours of Operation: _____ #Employees _____
- Addition/Accessory/Other (Size _____ x _____) Use _____ Closets in addition (_____)yes (_____)no

Water Supply: (County (_____) Well (No. dwellings 1) **MUST** have operable water before final

Sewage Supply: (New Septic Tank (Complete **New Tank Checklist**) (_____) Existing Septic Tank (_____) County Sewer

Property owner of this tract of land own land that contains a manufactured home w/in five hundred feet (500') of tract listed above? (_____)YES (_____)NO

Structures (existing or proposed): Single family dwellings _____ Manufactured Homes Other (specify) _____

Comments: 2 - 4x4 DECKS
1 - 4x6 DECK

Required Residential Property Line Setbacks:

Front	Minimum <u>35</u>	Actual <u>32.7</u>
Rear		<u>128.8</u>
Closest Side		<u>113.6</u>
Sidestreet/corner lot		<u>133</u>
Nearest Building on same lot	<u>N/A</u>	<u>N/A</u>

If permits are granted I agree to conform to all ordinances and laws of the State of North Carolina regulating such work and the specifications of plans submitted. I hereby state that foregoing statements are accurate and correct to the best of my knowledge. Permit subject to revocation if false information is provided.

Signature of Owner or Owner's Agent John Craddock

Date 1-15-2008

This application expires 6 months from the initial date if no permits have been issued

A RECORDED SURVEY MAP, RECORDED DEED (OR OFFER TO PURCHASE) AND PLAT ARE REQUIRED WHEN APPLYING FOR LAND USE APPLICATION
Please use Blue or Black Ink ONLY

Application Number: 0850019197

Departmental Checklist
Harnett County Central Permitting
PO Box 65, Lillington, NC 27546
910-893-7525 option 1 for Voice Permitting

Environmental Health New Septic Systems Test

Environmental Health Code 800

- Place "property flags" on each corner iron of lot. All property lines must be clearly flagged approximately every 50 feet between corners.
- Place "house corner flags" at each corner of where the house/manufactured home will sit. Use additional flagging to outline driveways, garages, decks, out buildings, swimming pools, etc.
- Place flags at locations as developed on site plan by Customer Service Technician and you.
- Place Environmental Health "orange" card in location that is easily viewed from road.
- If property is thickly wooded, Environmental Health requires that you clean out the undergrowth to allow the soil evaluation to be performed. Inspectors should be able to walk freely around site. *No grading of property should be done.*
- Call No Cuts to locate utility lines prior to scheduling inspection. 800-632-4949 (This is a free service)
- After preparing proposed site call the voice permitting system at 910-893-7525 and use code **800** (after selecting notification permit if multiple permits) for Environmental Health confirmation. **Please note confirmation number given at end of recording for proof of request.**
- Use Click2Gov or IVR to hear results. Once approved, proceed to Central Permitting for permits.

Environmental Health Existing Tank Inspections

Environmental Health Code **800**

- Place Environmental Health "orange" card in location that is easily viewed from road. Follow above instructions for placing flags on property.
- Prepare for inspection by removing soil over door as diagram indicates. Loosen trap door cover. (Unless inspection is for a septic tank in a mobile home park)
- After preparing trapdoor call the voice permitting system at 910-893-7525 & select notification permit if multiple permits, then use code **800** for Environmental Health confirmation. **Please note confirmation number given at end of recording for proof of request.**
- Use Click2Gov or IVR to hear results. Once approved, proceed to Central Permitting for remaining permits.

Health and Sanitation Inspections

- After submitting plans for food and lodging to Central Permitting, please allow approximately 7-10 working days for plan status. Use Click2Gov or IVR to hear results.
- Once **all** plans are approved, proceed to Central Permitting for remaining permits.

Fire Marshal Inspections

- After submitting plans for Fire Marshal review to Central Permitting, please allow approximately 7-10 working days for approval. Use Click2Gov or IVR to hear results. Once **all** plans are approved, proceed to Central Permitting for permits.
- Fire Marshal's letter must be placed on job site until work is completed.

Public Utilities

- Place stake with "orange" tape/name thirty feet (30) from the center of the road at the location you wish to have water tap installed.
- Allow four to six weeks after application for water/sewer taps. Call Utilities at 893-7575 for technical assistance.

Building Inspections

- After submitting plans for Building Inspections, please allow approximately 3 working days for review. Use Click2Gov or IVR to hear results. Once **all** plans are approved, proceed to Central Permitting for permits.
- For new housing/set up permits must meet E 911 / Addressing guidelines prior to scheduling final inspection.
- Use Click2Gov or IVR to hear results.

E911 Addressing

Addressing Confirmation Code **814**

- Address numbers shall be mounted on the house, 3 inches high (5" for commercial).
- Numbers must be a contrasting color from house, must be clearly visible night and day at entrance of driveway if home is 100 ft or more from road, or if mailbox is on opposite side of road.
- Once you purchase permits and footing inspection has been approved call the voice permitting system at 910-893-7525 and give code **814** for address confirmation. This must be called in even if you have contacted E911 for verbal confirmation. Check Click2Gov for results and address.

• **Inspection results can be viewed online at <http://www.harnett.org/services-213.asp> then select Click2Gov**

Applicant/Owner Signature

[Handwritten Signature]

Date

1-15-2008

OWNER NAME: BEST VALUE / NEW GENERATION APPLICATION #: 19197

This application to be filled out only when applying for a new septic system.

County Health Department Application for Improvement Permit and/or Authorization to Construct

IF THE INFORMATION IN THIS APPLICATION IS FALSIFIED, CHANGED, OR THE SITE IS ALTERED, THEN THE IMPROVEMENT PERMIT OR AUTHORIZATION TO CONSTRUCT SHALL BECOME INVALID. The permit is valid for either 60 months or without expiration depending upon documentation submitted. (complete site plan = 60 months; complete plat = without expiration)

DEVELOPMENT INFORMATION

- New single family residence
- Expansion of existing system
- Repair to malfunctioning sewage disposal system
- Non-residential type of structure

WATER SUPPLY

- New well
- Existing well
- Community well
- Public water
- Spring

Are there any existing wells, springs, or existing waterlines on this property?

{ } yes { } no { } unknown

SEPTIC

If applying for authorization to construct please indicate desired system type(s): can be ranked in order of preference, must choose one.

- { } Accepted { } Innovative
- { } Alternative { } Other _____
- { } Conventional { } Any

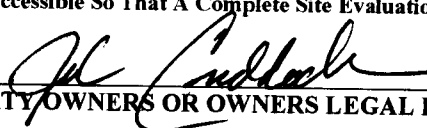
The applicant shall notify the local health department upon submittal of this application if any of the following apply to the property in question. If the answer is "yes", applicant must attach supporting documentation.

- { } YES { } NO Does the site contain any Jurisdictional Wetlands?
- { } YES { } NO Does the site contain any existing Wastewater Systems?
- { } YES { } NO Is any wastewater going to be generated on the site other than domestic sewage?
- { } YES { } NO Is the site subject to approval by any other Public Agency?
- { } YES { } NO Are there any easements or Right of Ways on this property?
- { } YES { } NO Does the site contain any existing water, cable, phone or underground electric lines?

If yes please call No Cuts at 800-632-4949 to locate the lines. This is a free service.

I Have Read This Application And Certify That The Information Provided Herein Is True, Complete And Correct. Authorized County And State Officials Are Granted Right Of Entry To Conduct Necessary Inspections To Determine Compliance With Applicable Laws And Rules.

I Understand That I Am Solely Responsible For The Proper Identification And Labeling Of All Property Lines And Corners And Making The Site Accessible So That A Complete Site Evaluation Can Be Performed.


PROPERTY OWNERS OR OWNERS LEGAL REPRESENTATIVE SIGNATURE (REQUIRED)

1-15-2008
DATE



HARNETT COUNTY TAX ID#

05-0613-0070
7-27-07 BY K160

FOR REGISTRATION REGISTER OF DEEDS
HARNETT COUNTY, NC
2007 JUL 27 04:20:37 PM
BK: 2406 PG: 447-450 FEE: \$20.00
NC REV STAMP: \$40.00 NB: \$25.00
INSTRUMENT # 2007013665

Excise Tax \$40.00

Recording Time, Book and Page

Tax Lot No. _____
Verified by _____
by _____

Parcel Identifier No. _____
County on the _____ day of _____, 20__

Mail after recording to _____
Grantee Best Value Housing, Inc., 101 Industrial Blvd., Eatonton, GA 31024

This instrument was prepared by Patrick E. Neighbors, Attorney-at-Law, 2000 Regency Parkway, Ste 335, Cary, North Carolina 27518

Brief description for the Index

Lot 6M and 8M Revised, Block 14,
Captains Landing Subdivision

NORTH CAROLINA GENERAL WARRANTY DEED

THIS DEED made this 25 day of July,
2007, by and between GRANTOR

H & S Homes, LLC
101 Industrial Blvd.
Eatonton, GA 31024

GRANTEE

Best Value Housing, Inc.
101 Industrial Blvd.
Eatonton, GA 31024

Enter in the appropriate block for each party: name, address, and, if appropriate, character of entity, e.g. corporation or partnership

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is here acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all of the certain lot or parcel of land situated in the City of Fuquay Varina, Harnett County, North Carolina and more particularly described as follows:

See Attached Exhibit 'A', which exhibit is hereby incorporated by reference in its entirety.

The property hereinabove described was acquired by Grantor by instrument recorded in:
Tract 1: Book 1713, Page 988; Tract 2: Book 1590, Page 495

A map showing the above described property is recorded in Plat Book _____ page _____.

Exhibit A

This is a recombinant deed, combining two tracts or parcels of real property, as reflected on Map Number 2006-492, Harnett County Registry, to which plat is hereby referenced for a more particular description, consisting of a combined acreage of 1.372 acres, more or less:

Tract 1:

BEING all of Lot 8M Revised, Block 14 of CAPTAIN'S LANDING SUBDIVISION, containing .93 acres, more or less, according to a map recorded in Book of Maps 2001, Page 501, in the office of the Register of Deeds of Harnett County, North Carolina. Formerly Lots 7M and 8M according to a map recorded in Book of Maps 21, Page 52, in the office of the Register of Deeds of Harnett County, North Carolina.

Tract 2:

Being Lot 6M, Block 14 of CAPTAIN'S LANDING SUBDIVISION according to map recorded in Book of Maps 21, Page 52 in the Office of the Register of Deeds of Harnett County, North Carolina, reference to which is hereby made for a greater certainty of description. This conveyance is made subject to all privileges of ingress and egress across Harper Land in Book 590, Page 306.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and the Grantor will warrant and defend the title against the lawful claims of all persons whomsoever except for the exceptions hereinafter stated. Title to the property hereinabove described is subject to the following exceptions:

Easements, restrictions, covenants, rights-of-way, and other exceptions of record. See prior granting instrument and chain of title for applicable exceptions.

IN WITNESS WHEREOF, the Grantor has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, the day and year for above written.

By: Steve M. Sinclair, President
H & S Homes, LLC
By Steve M. Sinclair, President

STATE OF NORTH CAROLINA
COUNTY OF HARNETT

I, Carla C. Everett, Notary Public Of Putnam COUNTY, do hereby certify that Steve M. Sinclair, President, H & S Homes, LLC, a Limited Liability Company, personally appeared before me this 15th day of July, 2007.

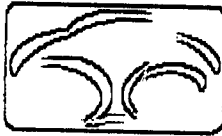


EXPIRES: Notary Public, Putnam County, Georgia
My Commission Expires June 20, 2011

is hereby certified to be correct. This instrument and this certificate are duly registered at the date and time and in the Book and Page shown on the first page hereof.

By _____

REGISTER OF DEEDS FOR Harnett County
Deputy/Assistant - Register of Deeds



Harnett
COUNTY
NORTH CAROLINA

Planning Department

www.harnett.org

PO Box 65
108 E. Front St.
Lillington, NC 27546

Ph: 910-893-7525
Fax: 910-814-6459

October 26, 2007

New Generation Homes
155 Northridge Dr
Louisburg, NC 27549

Re: 139 Burgundy Street

To Whom It May Concern:

The purpose of this letter to inform you that your application for an administrative variance with the Harnett County Planning Department has been approved.

The variance is for a 2'3" encroachment into the front yard of the property referenced above.

Please note that this variance will run with the above referenced property. Additionally, this will be the only variance permitted for the property.

Please feel free to contact the Harnett County Planning Department at (910)893-7525 with any further questions or concerns.

Sincerely,

Jay Sikes
Senior Planner

HARNETT COUNTY HEALTH DEPARTMENT IMPROVEMENT PERMIT

No 18563
5-2270

Be it ordained by the Harnett County Board of Health as follows: Section III, Item B. "No Person shall begin construction of any building at which a septic tank system is to be used for disposal of sewage without first obtaining a written permit from the Harnett County Health Department."

Name: (owner) WAYNE + LYNN LAELLE New Installation Septic Tank
Property Location: SR# 1463 NACHEZ TRACE Repairs Nitrification Line

Subdivision CAPTAINS LANDING Lot # 8M/14

Tax ID # _____ Quadrant # _____

Number of Bedrooms Proposed: 4 Lot Size: .93 AC

Basement with Plumbing: Garage:

Water Supply: Well Public Community

Distance From Well: 100 ft.

Following is the minimum specifications for sewage disposal system on above captioned property. Subject to final approval.

Type of system: Conventional Other FILL SYSTEM

Size of tank: Septic Tank: 1000 gallons Pump Tank: 1000 gallons

Subsurface Drainage Field No. of ditches 6 exact length of each ditch 90 ft. width of ditches 3 ft. depth of ditches SEE ATTACHMENT in.

French Drain Required: _____ Linear feet

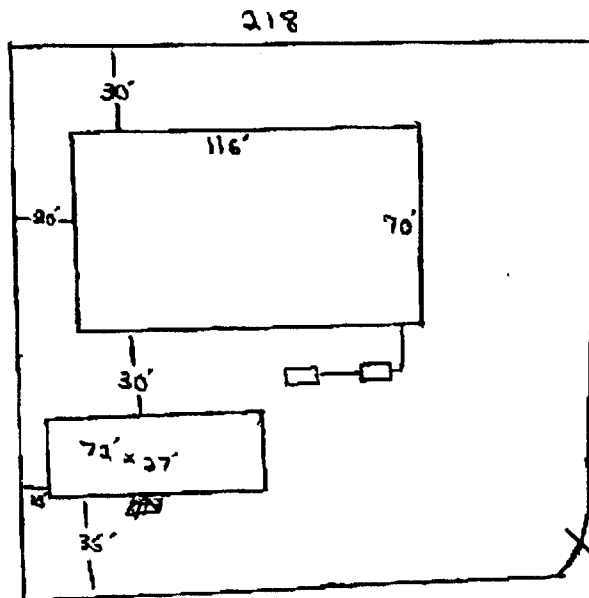
Date: 7/5/01

This permit is subject to revocation if site plans or intended use change.

Signed: [Signature] Oliver Talksders
Environmental Health Specialist

* SEE ATTACHEMENTS FOR ALL SYSTEM SPECIFICATIONS

* MEET ON SITE PRIOR TO INSTALLATION 191



BURANDY ST.

HARNETT COUNTY HEALTH DEPARTMENT AUTHORIZATION TO CONSTRUCT

Authorization is hereby given to construct a wastewater system to the specifications described by Harnett County Health Department Improvement Permit # 19563. This authorization shall be valid for a period not to exceed five (5) years from the date of issuance. This authorization will be invalid if ownership, site plans, or intended use change.

Owner or Authorized Agent WAYNE + LYNN LASELLE

Name: _____ Telephone # 557-7872

Address: 7004 LAGUNA DR HOLLY SPRINGS NC 27540

Property Location: SR# 1463 Road Name NACHEZ TRACE

New Installation Repair _____ Septic Tank Nitrification Lines

Subdivision CAPTAINS LANDING Lot # 8M/14

Number of Bedrooms Proposed: 4 Lot size: .93 AC

Basement _____ With Plumbing _____ Without Plumbing _____

Water Supply: Well _____ Public Minimum Well Setback: 100 ft.

Type of System: Conventional _____ Other

Tank Volume: Septic Tank 1000 gallons Pump Chamber 1000 gallons

Nitrification Field Specifications

Number of fields 1 Number of Lines per Field 6 Length of lines 90

Width of ditches 3 ft. Depth of ditches 18" (AT ORIGINAL) GRADE inches

French Drain: Linear feet required _____ Depth of gravel _____

No wastewater system shall be covered or placed into use by any person until an inspection by the Harnett County Health Department has determined that the system has been installed according to the conditions of the improvement permit and that a valid operations permit has been issued.

Authorized Agent for Harnett County Health Department

Name: [Signature] Date: 7/5/01

(Revised 2/96)CNSTRCT.WPD

Rowland Environmental Construction
Commitment to Quality & Service

[Estimate / Contract]

Date; Oct.10, 2007

Prepared For; New Generation Homes
1739 Hanover Rd.
Burlington, N.C. 27215
Job Site Location; Lots# 6M-8M, Captin's Landing
Fuqua Varina, N.C.

Job Description; Install new septic system system; 1,000 gal.
Tanks w/ alarm, pump, valves, and switches.
Includes; mound, manifold, and drain system.
All work done per Harnett Co. permit # ?

Memo; Rowland Enviro. Construction will provide; materials, labor,
and equipment necessary to install new septic system. This
estimate does not include any additional labor, materials, or
equipment due to unforeseen obstacles such as; rock, under
ground springs, utility lines, buried materials, or if extra
clearing is necessary. If this event occurs you will be notified
immediately.

Payment is due 50% at material delivery, balance at job
completion.

Estimate is based on Soil Scientist info. only not County info.
[Approximate Cost] \$ 12,975.00

Please sign and date below to validate this as a contract. Note this
Estimate may become invalid after 30 days due to material increases
Thank you for giving us the opportunity to serve you. Sincerely,


Al Rowland

Sign; _____ Date; _____

Rowland Enviro. Construction
2538 Kimrey Rd. Mebane, N.C. 27302

HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

P.O. Box 400, 266 Old Coats Road

Lillington, NC 27546

Phone (910) 893-8743 / Fax (910) 893-3594

E-mail: halowen@intrstar.net

28 December, 2001

Mr. Doug Maclean
C/o Horton Homes
7324 Capital Blvd.
Raleigh, NC 27616

Reference: Septic System Design for Single Family Dwelling
Lots 6M-8M, Captain's Landing
Wayne and Lynn Lasalle Property

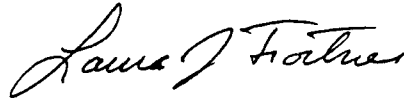
Dear Mr. Horton,

A septic system design has been prepared for the above referenced property to demonstrate Lots 6M-8M's ability to adequately support a four-bedroom home. A fill system utilizing conventional drainlines was able to be demonstrated for the initial septic system and a fill system utilizing innovative drainlines was demonstrated on the lot for the repair system. Attached is the septic system design and supporting information that has been submitted on your behalf to Mr. Oliver Tolksdors of the Harnett County Health Department for the review and permitting process. This report represents our professional opinion but does not guarantee or represent permit approval for any lot by the local Health Department.

The septic system has been demonstrated with various colored pin flags that are located on the lot. Once you have re-applied for a permit from the Health Department and they have visited the site and issued a permit, the portion of lot 6M that is being utilized for the initial septic system will have to be cleared for installation of the drainfield. We would like to take this time to reiterate the importance that little to no ground disturbing activity should be conducted. **The topsoil should not be scraped, or moved or re-shaped in any way.** Large trees should be removed with as little impact as possible. It is recommended that the large trees are cut off at ground level and the stumps left in the ground. You may wish to use a stump grinder to further remove some of the stump material down to the original ground surface or just below. Holes or depressions left by tree removal or other clearing activities should be filled in to original grade with topsoil type materials either brought in from off site or gathered from onsite in areas not designated for the septic system or the repair area. **If there is any doubt about where materials can be gathered from on site, you should request that we provide guidance or use an off site source for the needed materials.** In addition to these aforementioned recommendations, it is important that no activity or installation is carried out during wet conditions and the use of heavy equipment on the lot should be kept at a bare minimum.

We appreciate the opportunity to provide this service and hope to be allowed to assist you again in the future. If you have any questions or need additional information, please contact us at your convenience.

Sincerely,



Laura J. Fortner
Soil Scientist in Training III



Hal Owen
Licensed Soil Scientist

HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

P. O. Box 400, 266 Old Coats Road

Lillington, NC 27546

Phone (910) 893-8743 / Fax (910) 893-3594

E-mail: halowen@intrstar.net

28 December, 2001

Mr. Oliver Tolksdors
Harnett County Environmental Health
P.O. Box 9
Lillington, NC 27546

Reference: Septic System Design for a Four Bedroom Single Family Dwelling
Lots 6M-8M, Captain's Landing
Wayne and Lynn Lasalle Property

Dear Mr. Tolksdors,

A site investigation and septic system design was conducted and prepared for the above referenced property located on the northwest side of Burgandy Street in Captain's Landing Subdivision, Buckhorn Township, Harnett County, North Carolina. The purpose of the investigation was to demonstrate the ability of this combination of lots to support a subsurface sewage waste disposal system and 100 % repair area for a four-bedroom home. Public water supplies will be utilized for this lot. A foundation drain will not be possible with the present location of the home in relation to the proposed septic systems.

The soils present on Lot 6M are rated as provisionally suitable soils for fill systems due to a shallow depth to excessive soil wetness. Although most of Lot 7M & 8M have been disturbed, an area remains behind the home that also exhibits similar soils but were not utilized in the septic system design. This area may be useful for partial additional repair area if needed in the future. The upper 18-24 inches of the provisionally suitable soils on Lot 6M were observed to be friable clay loams. Wetness conditions were typically observed between 15-20 inches below ground surface thus the utilization of fill systems. The lowest application rate that is in this textural group is required for this type of system; therefore the system design has been based on a 0.3 gpd/sqft application rate. The proposed initial system utilizes eight 70-foot conventional drainlines in this bed of fill material. The proposed fill system for the repair utilizes six 70-foot innovative drainlines. These drainlines will need to be located approximately three inches above the natural ground surface. These proposed drainlines are flagged on site with various colored pin flags for your review. These pin flags were laid out on contour and maintain at least a 22-foot setback off the side property line where the drainlines run perpendicular to it and 23.5-foot off the rear property line where the drainlines run parallel. Once a permit is issued, the area required for the initial system will need to be cleared carefully so that fill material for the trenches can be applied to the site.

Fifteen inches of fill material is required for the base of this system and should be a sandy or loamy sand texture up to the top of the nitrification lines. This material should be nearly free of any fibrous organics, debris or building rubble. This fifteen inches of sandy fill should be added in five inch layers with the first layer to be tilled to a depth of 6 inches in order to incorporate the soils and obtain a transitional layer between the original and new material. The remaining fill can then be added up to 15 inches above the original surface. The drainlines can be installed at grade at this point. The cover material (15-21 inch depth above original surface) can then be added and should be a finer textured soil such as a sandy loam or sandy clay loam to enable the growth of a vegetative cover. This bed of fill material should extend 5 feet beyond the edges of the entire drainfield and then taper to the original surface at a rise to run ratio of 1:4 feet. Immediately after the cover material is added and the site shaped to shed surface water; a grass cover needs to be established.

Attached is the septic system layout and supporting information for this lot. We trust that this report provides all the information that you require at this time. If you have any questions or need additional information, please contact us at your convenience.

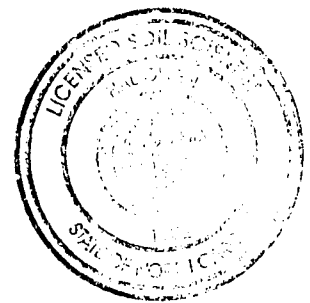
Sincerely,



Laura J. Fortner
Soil Scientist in Training III



Hal Owen
Licensed Soil Scientist



PRESSURE MANIFOLD DESIGN

Hal Owen Associates, Inc.
 Soil Environmental Scientists
 PO Box 400, Lillington, NC 27546
 Phone (910) 893-8743 Fax 893-3594

Applicant: Wayne & Lynn Casale c/o Dr. Doug Mackay of Horton Place Phone # (910) 250-2600
 Mailing Address: 7710 Lenoir Rd., Lillington, NC 27546
 PN: _____
 Site Address: 10710 Hutchins Trace

BDR: 4 Daily Flow: 480 Square Ft: 1200.00 Linear Feet: 560
 LTAR: 0.3 gpd/sqft LTAR w/ innov: _____ gpd/sqft
 Septic Tank (gal): 1000 Pump Tank (gal): 1000

Length of Treat (ft) _____
 Length of Side Pipe (ft) 7

Supply Line Length (ft): 25 Diameter: 2" sch 40 pvc
 Pump Tank Elevation: _____ Pump Elevation (ft): -5

Simplex Control Panel, **SJE Rhombus 112** or equal, with elapsed time meter and cycle counter is required.
 Floats to be determined by type of pump tank used. A septic filter, **Polylok PL-122** or equal is required.
 Possible pumps include:

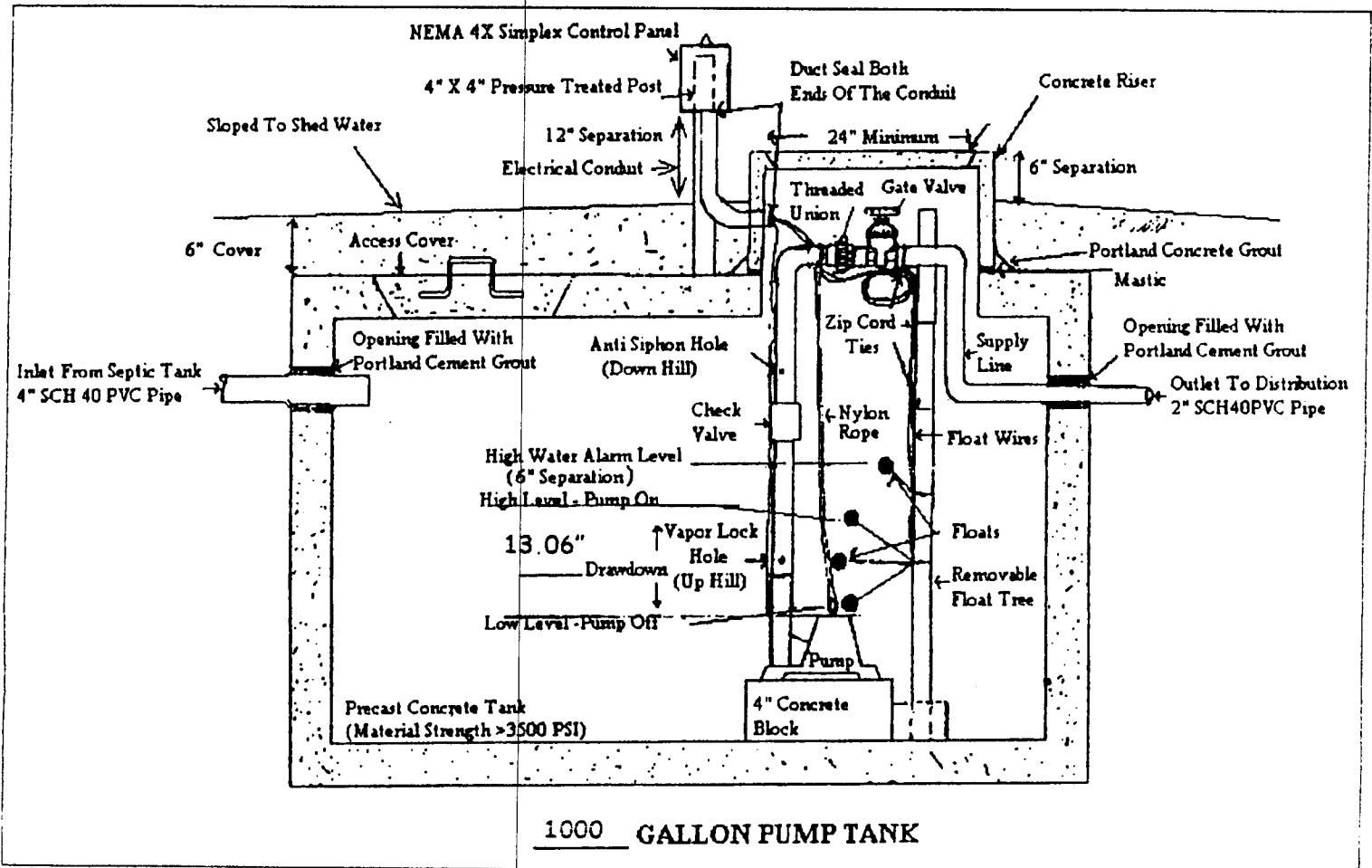
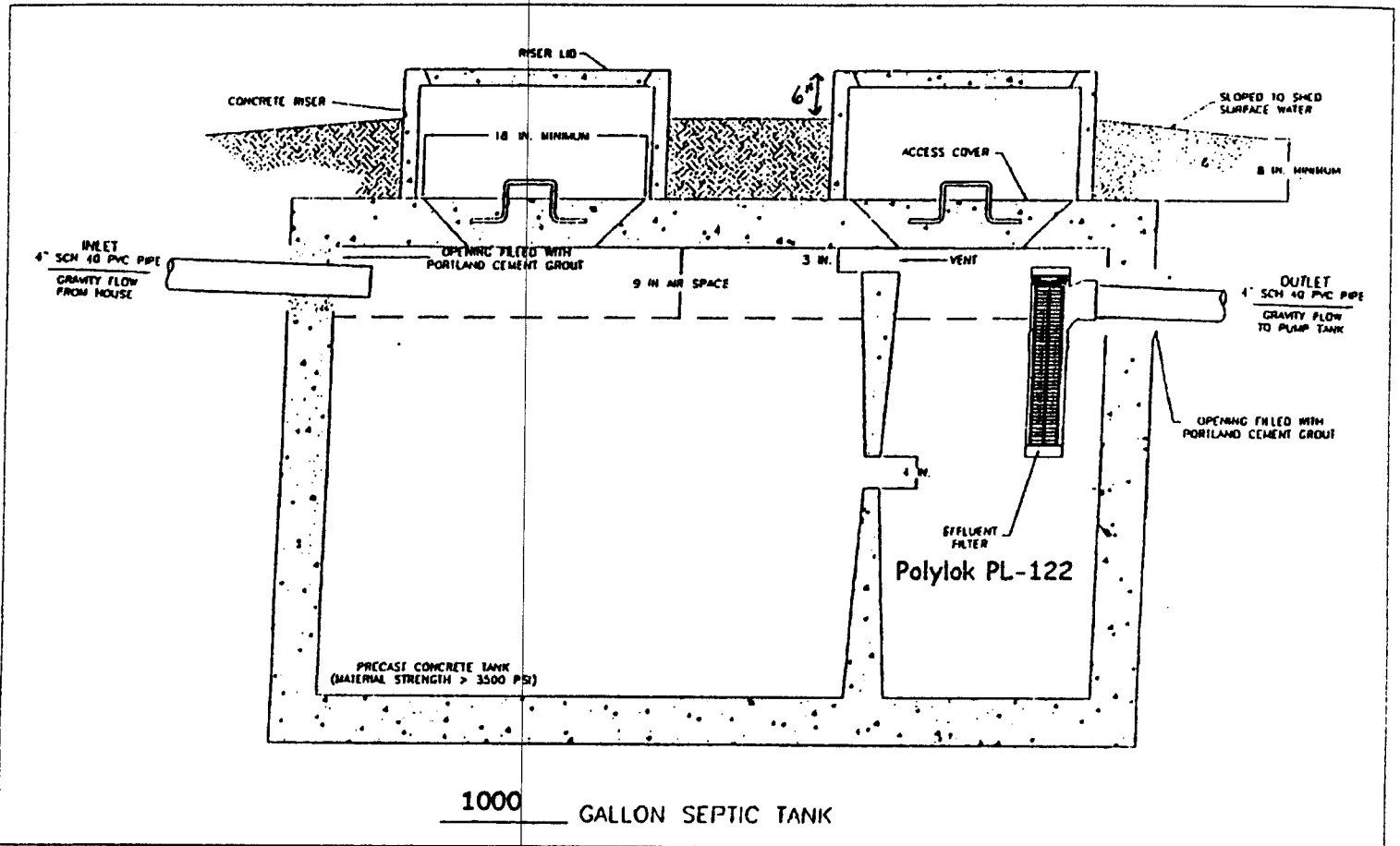
- Hydromatic: SW25/33 Zoeller: 264 series Barnes: EHV .5HP

Flow Rate (gpm) _____
 Discharge (ft) _____
 Drawdown (ft) _____
 Pump to Discharge _____
 Drawdown (ft) _____
 Drawdown: 274.23 gallons divided by 21 gal/inch = 13.06 inches

Tap Chart

Initial/Repair	Line #	Color	Drainline Length Used (ft)	Measured Field Line Length(ft)
Repair	1	R	70	75
Repair	2	W	70	72
Repair	3	Y	70	73
Repair	4	B	70	75
Repair	5	R	70	70
Repair	6	W	70	71
Repair	7	Y	70	72
Initial	8	B	70	70
Initial	9	R	70	73
Initial	10	W	70	76
Initial	11	Y	70	77
Initial	12	B	70	75
Initial	13	R	70	76
Initial	14	W	70	78
Total Drainline:			980	1033

Lot 6M-8M, Captain's Landing Subdivision

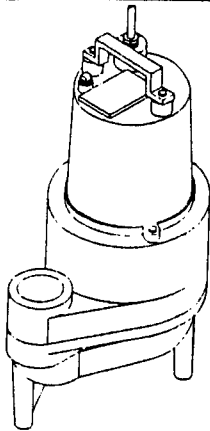


BARNES®

EHV

SUBMERSIBLE EFFLUENT PUMPS 3/4" Spherical Solids Handling

SECTION	B
PAGE	1
DATE	1/01
REPLACES	12/99



Series: EHV .5 HP 3450RPM

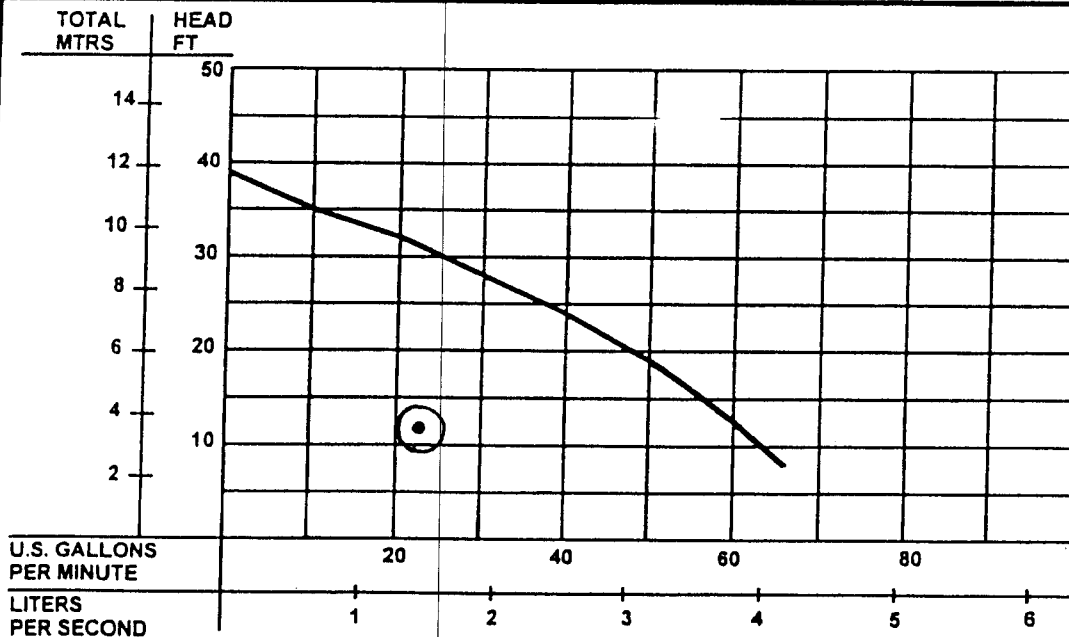


CSA 108 - File No. LR18567
UL 778

NRTLIC

Description:
PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK EFFLUENT APPLICATIONS.

DISCHARGE: 2", (51mm) N.P.T. Female, Vertical.
LIQUID TEMPERATURE: 77°F (25°C) Continuous.
MOTOR HOUSING: Cast Iron
PUMP BODY: Cast Iron
IMPELLER: *Design:* Multi-Vane Vortex
Material: Cast Iron.
SHAFT: 420 Stainless Steel
O-RINGS: Buna-N
HARDWARE: 300 Series Stainless Steel
PAINT: Air Dry Enamel
CABLE ENTRY: 20 ft. (6M) Cord with Plug and Pressure Grommet for Sealing and Strain Relief.
SEAL: *Design:* Single Mechanical, Oil-Filled Reservoir.
Material: Rotating Faces - Ceramic
Stationary Faces - Carbon
Elastomer - Buna-N
Hardware - 300 Series Stainless
3450 RPM
SPEED:
UPPER BEARING: *Design:* Single Row, Ball
LOWER BEARING: *Design:* Single Row, Ball
MOTOR: *Design:* Oil-Filled.
Insulation: Class B.
SINGLE PHASE: Permanent Split Capacitor (PSC).
Includes Overload Protection in Motor.
FLOAT: EHV412 None
EHV412A Wide Angle, Mechanical, 20ft (6M) Cable, Pipe Mounted.
EHV412VF Vertical Float, PVC, Snap Action.
EHV412AT Wide Angle, Mechanical, 20ft (6M) Cable, Pump Mounted.



Testing is performed with water, specific gravity of 1.0 @ 68° F, other fluids may vary performance.

CRANE®

A Crane Co. Company

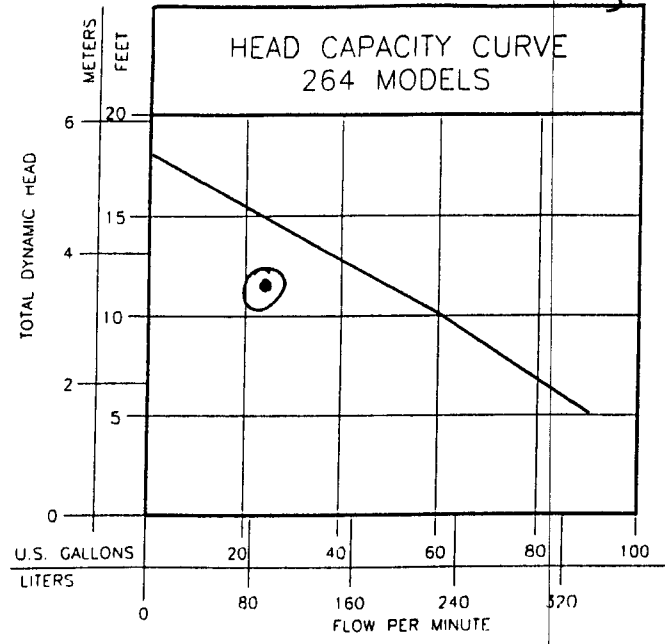
PUMPS & SYSTEMS

Barnes Pumps, Inc.
Service Parts & Warranty Dept.
420 Third Street/P.O. Box 603
Piqua, Ohio 45356-0603
Ph: (937) 615-3599
Fax: (937) 773-7157

Barnes Pumps, Inc.
Sales Office
1485 Lexington Ave.
Mansfield, Ohio 44907-2674
Ph: (419) 774-1511
Fax: (419) 774-1530

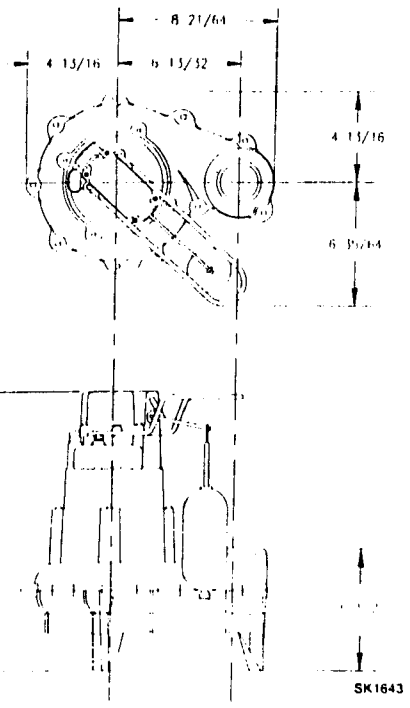
Barnes Pumps Canada, Inc.
83 West Drive
Bramalea, Ontario
Canada L6T 2J6
Ph: (905) 457-6223
Fax: (905) 457-2650





TOTAL DYNAMIC HEAD/CAPACITY PER MINUTE SEWAGE AND DEWATERING

264 MODELS			
Fl.	Meters	Gal.	Ltrs.
5	1.52	90	341
10	3.05	60	227
15	4.57	22.5	85
Lock Valve:		18 ft.	



CONSULT FACTORY FOR SPECIAL APPLICATIONS

- Electrical alternators for duplex systems available with variable level float switches.
- Minimum recommended basin size
Simplex-18"x30"
Duplex-30"x30"
- Standard Automatic - Weight 39 lbs. .4 H.P.
- High water alarms available.
- Mechanical alternators available for duplex systems.

CAUTION Maximum temperature of sewage or dewatering must be limited to 130° F. (54° C.) For over 130° F. (54° C.) special quotation required.

264 MODELS				CONTROL SELECTION		
Model	Volts	Ph	Mode	Amps	Simplex	Duplex
M264	115	1	Auto	9.4	1 or 1 & 7	—
N264	115	1	Non	9.4	2 or 2 & 6	3 or 4 & 5
D264	230	1	Auto	4.7	1 or 1 & 7	—
E264	230	1	Non	4.7	2 or 2 & 6	3 or 4 & 5

SELECTION GUIDE

1. Integral float operated 2-pole mechanical switch, no external control required.
2. Single piggyback variable level float switch, or double piggyback variable level float switch. Refer to FM0477.
3. Mechanical alternator M-Pak 10-0072 or 10-0075.
4. See FM0712 for correct model of electrical alternator.
5. Control switch 10-0225 used as a control activator specify duplex (3) or (4) float system.

For information on additional Zoeller products refer to catalog on Piggyback Variable Level Float Switches, FM0477, Electrical Alternator, FM0486, Mechanical Alternator, FM0495, Sump/Sewage Basins, FM0487, and Single Phase Simplex Pump Control, FM1596, Alarm System, FM0732

CAUTION

All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electric Code (NEC) and the Occupational Safety and Health Act (OSHA).

RESERVE POWERED DESIGN

For unusual conditions a reserve safety factor is engineered into the design of every Zoeller pump.

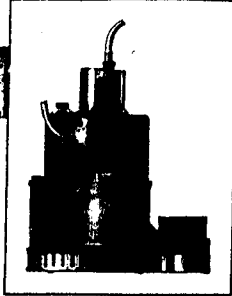

<http://www.zoeller.com>

ZOELLER
PUMP CO.

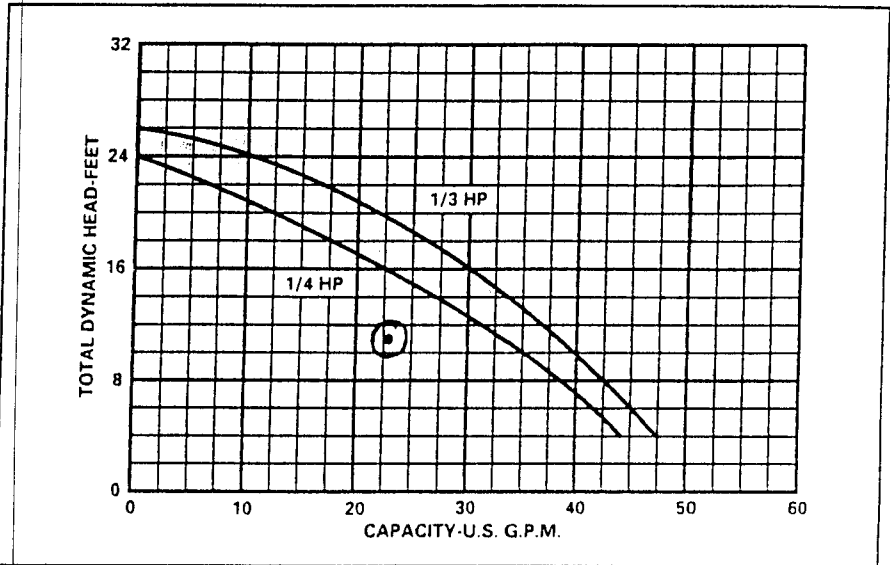
MAIL TO: P.O. BOX 16347
Louisville, KY 40256-0347
SHIP TO: 3649 Cane Run Road
Louisville, KY 40211-1961
(502) 778-2731 • 1 (800) 928-PUMP
FAX (502) 774-3624

Manufacturers of
"Quality Pumps Since 1939"

ENGINEERING DETAILS - SW25/33



Performance Data

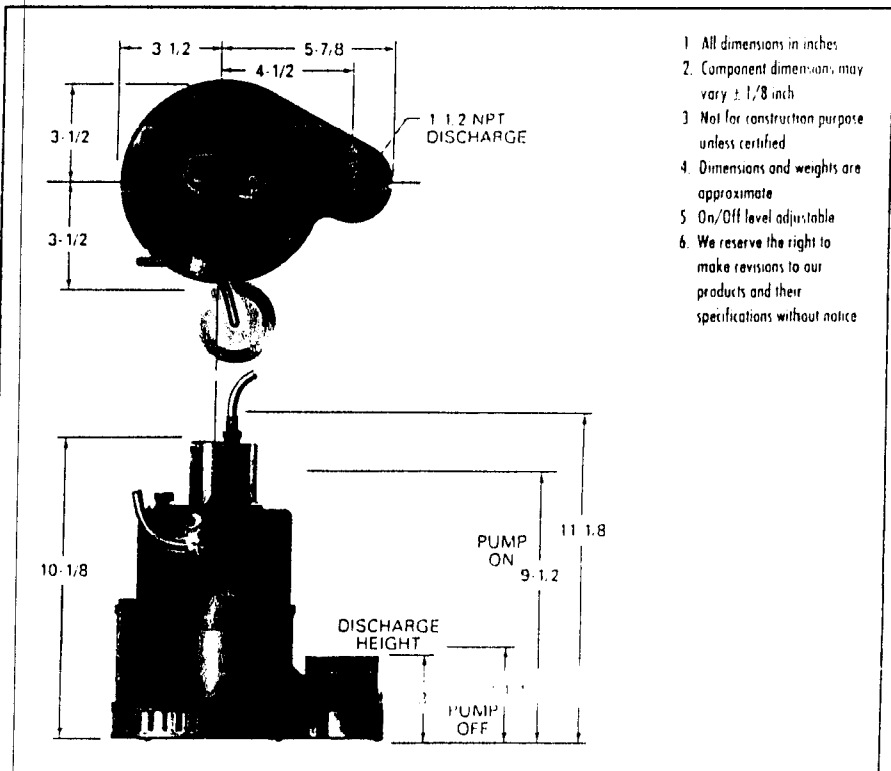


Total Head (feet)		4	6	8	10	12	14	16	18	20	22	24
GPM	1/4 HP	44	41	36	33	29	26	23	18	12	6	0
	1/3 HP	47	45	43	40	37	34	30	26	22	16	10

Pump Characteristics

Pump/Motor Unit	Submersible	
Manual Models	SW25M1	SW33M1
Automatic Models	SW25A1	SW33A1
Horsepower	1/4	1/3
Full Load Amps	8.0	10.0
Motor Type	Shaded Pole (4 pole)	
R.P.M.	1550	
Phase Ø	1	
Voltage	115	
Hertz	60	
Operation	Intermittent	
Temperature	120 °F Ambient	
NEMA Design	A	
Insulation	Class A	
Discharge Size	1-1/2" NPT	
Solids Handling	1/2"	
Unit Weight	30 lbs.	
Power Cord	18/3, SJTW, 10' std. (20' optional)	

Dimensional Data



1. All dimensions in inches.
2. Component dimensions may vary ± 1/8 inch.
3. Not for construction purpose unless certified.
4. Dimensions and weights are approximate.
5. On/Off level adjustable.
6. We reserve the right to make revisions to our products and their specifications without notice.

Materials of Construction

Handle	Steel
Lubricating Oil	Dielectric Oil
Motor Housing	Cast Iron
Pump Casing	Cast Iron
Shaft	Steel
Mechanical Shaft Seal	Seal Faces: Carbon/Ceramic Seal Body: Anodized Steel Spring: Stainless Steel Bellows: Buna-N
Impeller	Thermoplastic
Upper Bearing	Bronze Sleeve Bearing
Lower Bearing	Single Row Ball Bearing
Strainer/Base	Plastic
Fasteners	Stainless Steel

AURORA/HYDROMATIC Pumps, Inc.
 1840 Baney Road, Ashland, Ohio 44805
 (419) 289-3042

MODEL 112 Control Panel

Single phase, simplex motor contactor control.

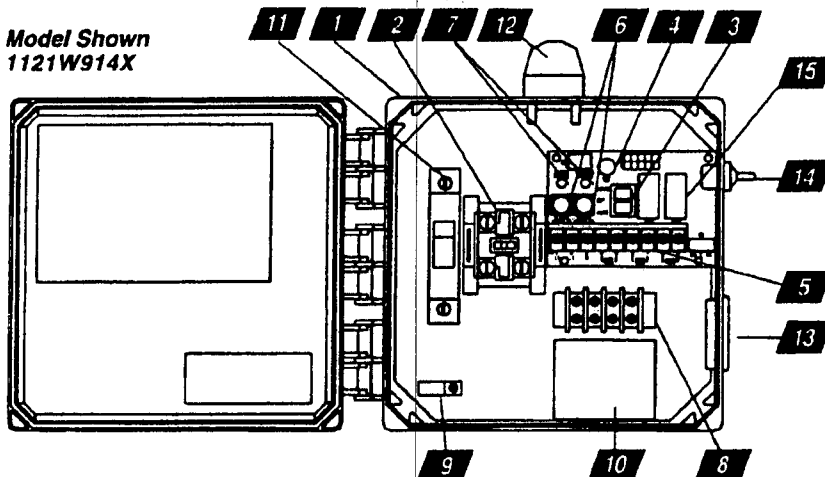
The Model 112 control panel provides a reliable means of controlling one 120, 208, or 240 VAC single-phase pump in pump chambers, sump pump basins, irrigation systems and lift stations. Two control switches activate a magnetic motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system.



Indoor

Indoor/outdoor

Model Shown
1121W914X



1. **Enclosure** measures 8 x 8 x 4 inches (20.32 X 20.32 X 10.16 cm). Choice of NEMA 1 (steel for indoor use), or NEMA 4X (ultraviolet stabilized thermoplastic with removable flanges for outdoor or indoor use).
* Options selected may increase enclosure size and change component layout.
2. **Magnetic Motor Contactor** controls pump by switching hot electrical lines.
3. **HOA Switch** for manual pump control (mounted on circuit board).
4. **Green Pump Run Indicator Light** (mounted on circuit board).
5. **Float Switch Terminal Block** (mounted on circuit board).
6. **Alarm and Control Fuses** (mounted on circuit board).
7. **Alarm and Control Power Indicators** (mounted on circuit board).
8. **Pump Input Power and Pump Connection Terminal Block**
9. **Ground Lug**
10. **Terminal Block Installation Label**
11. **Circuit Breaker** (optional) provides pump disconnect and branch circuit protection.

STANDARD ALARM PACKAGE (other options available)

12. **Red Alarm Beacon** provides 360° visual check of alarm condition.
Note: NEMA 1 style utilizes a door mounted indicator in lieu of a beacon.
13. **Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
Note: NEMA 1 style utilizes an internally mounted buzzer (83 to 85 decibel) in lieu of horn.
14. **Exterior Horn Test/Normal/Silence Switch** allows alarm horn to be silenced and testing of horn and light to ensure proper operation of alarm system.
15. **Horn Silence Relay** automatically resets alarm after alarm condition has been resolved (mounted on circuit board).

FEATURES

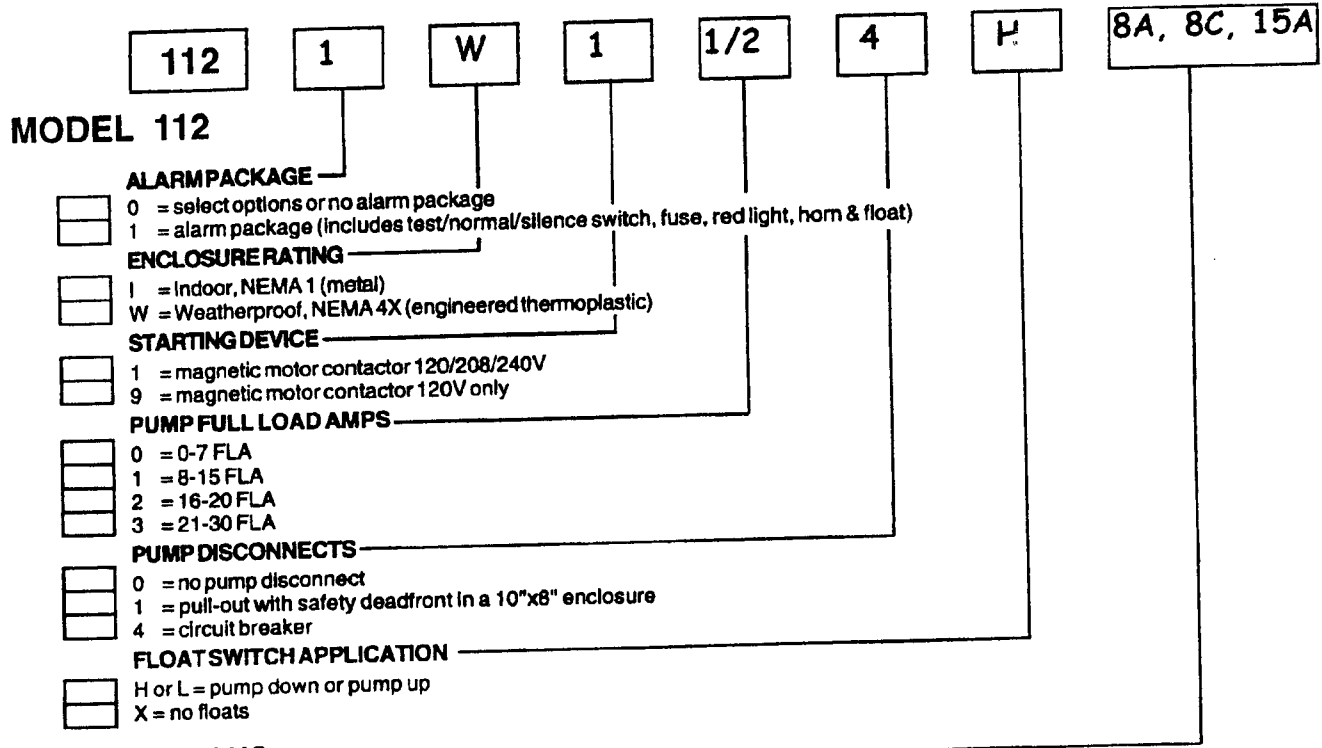
- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes three 20' Sensor Float® control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty



SJE rhombus
SJ ELECTRO SYSTEMS, INC.

PO Box 1708, Detroit Lakes, MN 56502
1-888-DIAL-SJE • 1-218-847-1317
1-218-847-4617 Fax
email: sje@sjerhombus.com
www.sjerhombus.com

Lot 6M-8M, Captain's Landing Subdivision



OPTIONS *Listed below*

★ Options selected may increase enclosure size and change component layout.

If additional features are required, call the factory for a quote on either a Pro-Line or Engineered Custom control panel system.

CODE	DESCRIPTION	CODE	DESCRIPTION
<input type="checkbox"/> 1A	Red beacon only / no audio <i>must select 1E if floats included</i>	<input type="checkbox"/> 11C	NEMA 1 alarm panel <i>must select option 6A</i>
<input type="checkbox"/> 1C	Horn only / no visual <i>must select 1E if floats included</i>	<input type="checkbox"/> 11D	NEMA 4X alarm panel <i>must select option 6A</i>
<input type="checkbox"/> 1E	Alarm float	<input type="checkbox"/> 15A	Control / alarm circuit breaker <i>Does not include the circuit board as in standard.</i>
<input type="checkbox"/> 3A	Alarm flasher	<input type="checkbox"/> 16A	10' cord in lieu of 20'
<input type="checkbox"/> ★ 4A	Low level cutout <i>select option 4D if floats included</i>	<input type="checkbox"/> 16B	15' cord in lieu of 20'
<input type="checkbox"/> ★ 4B	Red low-level indicator & alarm <i>must select 4A also</i>	<input type="checkbox"/> 16C	30' cord in lieu of 20'
<input type="checkbox"/> 4D	Low-level float	<input type="checkbox"/> 16D	40' cord in lieu of 20'
<input type="checkbox"/> 6A	Auxiliary alarm contact, form C type	<input type="checkbox"/> 17A	SJE SignalMaster® / mounting strap ●
<input type="checkbox"/> ★ 8A	Elapsed time meter	<input type="checkbox"/> 17B	SJE SignalMaster® / externally weighted ●
<input type="checkbox"/> ★ 8C	Event (cycle) counter	<input type="checkbox"/> 17C	Sensor Float® / internally weighted ▲
<input type="checkbox"/> 10E	Lockable latch - NEMA 4X	<input type="checkbox"/> 17D	Sensor Float® / externally weighted ▲
<input type="checkbox"/> 10E	Lockable latch - NEMA 1	<input type="checkbox"/> 17E	Sensor Float® Mini / pipe clamp ▲
<input type="checkbox"/> ★ 10F	Lightning arrester	<input type="checkbox"/> 17F	Sensor Float® Mini / externally weighted ▲
<input type="checkbox"/> ★ 10K	Anti-condensation heater	<input type="checkbox"/> 19X	Door mounted pump run indicator
		<input type="checkbox"/> 21A	Pumpmaster® in lieu of on/off switches ●
		<input type="checkbox"/> 21B	PumpMaster® Plus in lieu of on/off switches ●
		<input type="checkbox"/> 21C	Super Single® in lieu of on/off switches ▲
		<input type="checkbox"/> 21D	Double Float™ in lieu of on/off switches ▲

● Mechanically-activated ▲ Mercury-activated

SAMPLE

