

Environmental Services - Water Quality
Onsite Wastewater Scan Data Entry Form

PERMIT #: 0038582

PIN #: 1741435983

OP DATE: 1110812012

SYSTEM USE:

- ☒ House
☐ Mobile Home
☐ Business
☐ Other

SEWAGE TYPE:

- ☒ Domestic
☐ Industrial

PUMP/SIPHON?:

- ☒ Yes
☐ No

PRESSURE MANIFOLD:

- ☒ Yes
☐ No

SYSTEM TYPE:

- ☐ I
☐ II
☒ III
☐ IV
☐ V
☐ VI
☐ Other

SUB TYPE:

- ☐ A
☒ B
☐ C
☐ D
☐ E
☐ F
☐ G

NBR BEDROOMS:

- ☐ 1
☐ 2
☐ 3
☒ 4
☐ 5
☐ 6
☐ Other

MAINT. SCHEDULE:

- ☐ Yes
☒ No

CERT. OPERATOR

- ☐ Yes
☒ No

GT ST PT

- | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|
| ☐ | ☐ | ☐ |
| ☐ | ☐ | ☐ |
| ☐ | ☐ | ☐ |
| ☐ | ☒ | ☒ |
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| ☒ | ☐ | ☐ |

SIZE

- 750
900
1,000
1,200
1,500
1,800
2,100
2,500
3,000
4,000
5,000
8,000
10,000
Other
None/NA GT or PT

DRAINFIELD SIZE(SQ. FT.)

01200

DRAIN TYPE:

- ☐ Stone
☒ EZ Flow
☐ Infiltrator
☐ Biodiffuser
☐ Cultec
☐ Drip
☐ Hancor
☐ Large Dia. Pipe
☐ Multi-Pipe
☐ Other

MAX DEPTH (IN.):

- ☐ 12 in. or less
☐ 18 in. or less
☒ 24 in. or less
☐ 26 in. or less
☐ 28 in. or less
☐ 30 in. or less
☐ 32 in. or less
☐ 36 in. or less
☐ Other

STONE DEPTH (IN.):

- ☐ 8 in. or less
☒ 12 in. or less
☐ 18 in. or less
☐ 24 in. or less
☐ Other

TRENCHES:

- ☒ Individual
☐ Bed

TRENCH WIDTH (IN.):

- ☐ 12 in. or less
☐ 18 in.
☐ 24 in.
☒ 36 in.
☐ 6 ft. or less
☐ 9 ft. or less
☐ Other

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WELL AND SEWAGE SITE LOCATION PERMIT

NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED
UNTIL AN AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION HAS BEEN ISSUED

PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/ OR IF SITE IS ALTERED OR INTENDED USE CHANGED

PERMIT#: **D038582** STATUS: **A**
PIN: **1741-89-44-6022-000-43.5983**

APP. DATE: **11/21/2006**
TAX MAP:
JURISDICTION: **WC**

BLDG. PERMIT#: **0121603**
RECORDED: **Y** ORIG. PERMIT#:
ZONING: **R30** SW DEVICE: **N S#:**

TOWNSHIP: **16 ST MARYS**
APPLICANT: **TONY WOODARD**
111 BLACK FOREST DR
CLAYTON, NC 27526
(919) 369 - 3526

USE: **HD USE: 101 ONE-FAMILY HOUSE**
EXIST USE:

LTAR: **0.30** **0.30** BEDROOMS: **4** BASEMENT: **N** #EMPLOYEES: **0**
SITE: **ADDRESS: 3612 GRIFFICE MILL RD**

SUBDIVISION: **PRESERVE AT LON** LOT: **14** ACRES: **0.71** EASEMENT: **Y** LOC: **O** SYS: **P**
DIRECTION: **HWY 40 TO AUBURN KNIGHTDALE RD R BATTLE BRIDGE**
R GRIFFICE MILL

Well System: WATER: COMMUNITY - TYPE:

WELL LOG INFORMATION: DEPTH: _____ CASING DEPTH: _____ YIELD: _____ STATIC LEVEL: _____
WELL CONTRACTOR: _____ REG.# _____ PUMP CONTRACTOR: _____ REG.# _____
Construction Compliance GROUT APPROVED ☐ DATE _____ EHS _____
WELLHEAD APPROVED ☐ DATE _____ EHS _____
SYSTEM FINALIZED ☐ DATE _____ EHS _____

COMMENTS:

Operation Permit

DESIGN FLOW: **27.40** gal./min. ACTUAL FLOW: _____ INNOVATIVE LETTER:

INSTALLED BY: **Tomas**
PROPRIETARY SYSTEM: **E-Z LAY**
COMMENTS:

INSTALLATION APPROVED BY: **Adrienne Hollaway RKS**
FILTER NO: _____

OPERATIONS PERMIT ISSUED? **Y** OP DATE: **11/8/12** BY: **Alan Alcock**

This permit is based in part on information provided by the homeowner or his/her representative in the application submitted for this permit. The Environmental Health Specialist is not responsible for false or misleading information contained in the application. The Environmental Health Specialist is also not responsible for concealed conditions on the property or for statements in this report that may have resulted from false or misleading statements provided to him in the application. Neither Wake County nor the Environmental Health Specialist warrants that the septic tank system will continue to function satisfactorily in the future or that the water supply will remain potable.

As Built Information:

Date: **9/18/12** Benchmark: **TANK** Rod reading: **6'10 1/2"** Distance to Structure: **27 ft.**
ST: **1200** gals ID#: **MCP 529** D.O.M.: **9-15-11** Elev.: **100.0'** Distance to Well: **15 ft.**
PT: **1230** gals ID#: **MCP 364** D.O.M.: **10-12-11** Elev.: **7'1"**
D-box/FD/PM elev.: **2'6"** Supply Line: **55** ft. Pump/Control Panel: _____
Line 1: **5'2 1/2"** Date: _____ Line 6: _____ Date: _____
Line 2: **5'9"** Date: _____ Line 7: _____ Date: _____
Line 3: **6'6"** Date: _____ Line 8: _____ Date: _____
Line 4: **7'0"** Date: _____ Line 9: _____ Date: _____
Line 5: **7'8"** Date: _____ Line 10: _____ Date: _____
Distance to P/L: **12 ft.** Notes: **Pump final required.**

10/19/12 CC: 999872 ; ETM: 27

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PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/ OR IF SITE IS ALTERED OR INTENDED USE CHANGED

PERMIT#: D038582 STATUS: A APP. DATE: 11/21/2006 BLDG. PERMIT#: 0121603
PIN: 1741.83-44-6022-000 43.5983 TAX MAP: RECORDED: Y ORIG. PERMIT#:
TOWNSHIP: 16 ST MARYS JURISDICTION: WC ZONING: R30 SW DEVICE: N S#:
APPLICANT: TONY WOODARD
111 BLACK FOREST DR
CLAYTON, NC 27526
(919) 369 - 3526
USE: HD USE: 101 ONE-FAMILY HOUSE
EXIST USE:
LTAR: 0.30 0.30 BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0 FOUNDATION DRAIN: Y
SITE: ADDRESS: 3612 GRIFFICE MILL RD
SUBDIVISION: PRESERVE AT LON LOT: 14 ACRES: 0.71 EASEMENT: Y LOC: O SYS: P
DIRECTION: HWY 40 TO AUBURN KNIGHTDALE RD R BATTLE BRIDGE
R GRIFFICE MILL

IMPROVEMENT PERMIT

TANK SIZE: 1200 gal. PUMP Tank: 1200 gal. SQ FT: 1200 INNOVATIVE MAX DEPTH LINE: 24 in.
WASTEWATER: INDIVIDUAL SEWAGE: DOMESTIC TYPE SYSTEM: III G PUMP: Y P/M: Y
DAILY FLOW: 480 gal/day DESIGN FEE REQ?: PAID?: WATER: COMMUNITY

COMMENTS:

IP ISSUED? Y DATE: 07/09/2007 BY: (KGD) *Kent Danks & C. Hayes* PHONE#: 856-7434

AUTHORIZATION FOR WASTEWATER/WATER SYSTEM CONSTRUCTION

VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE

AUTHORIZATION CONDITIONS:

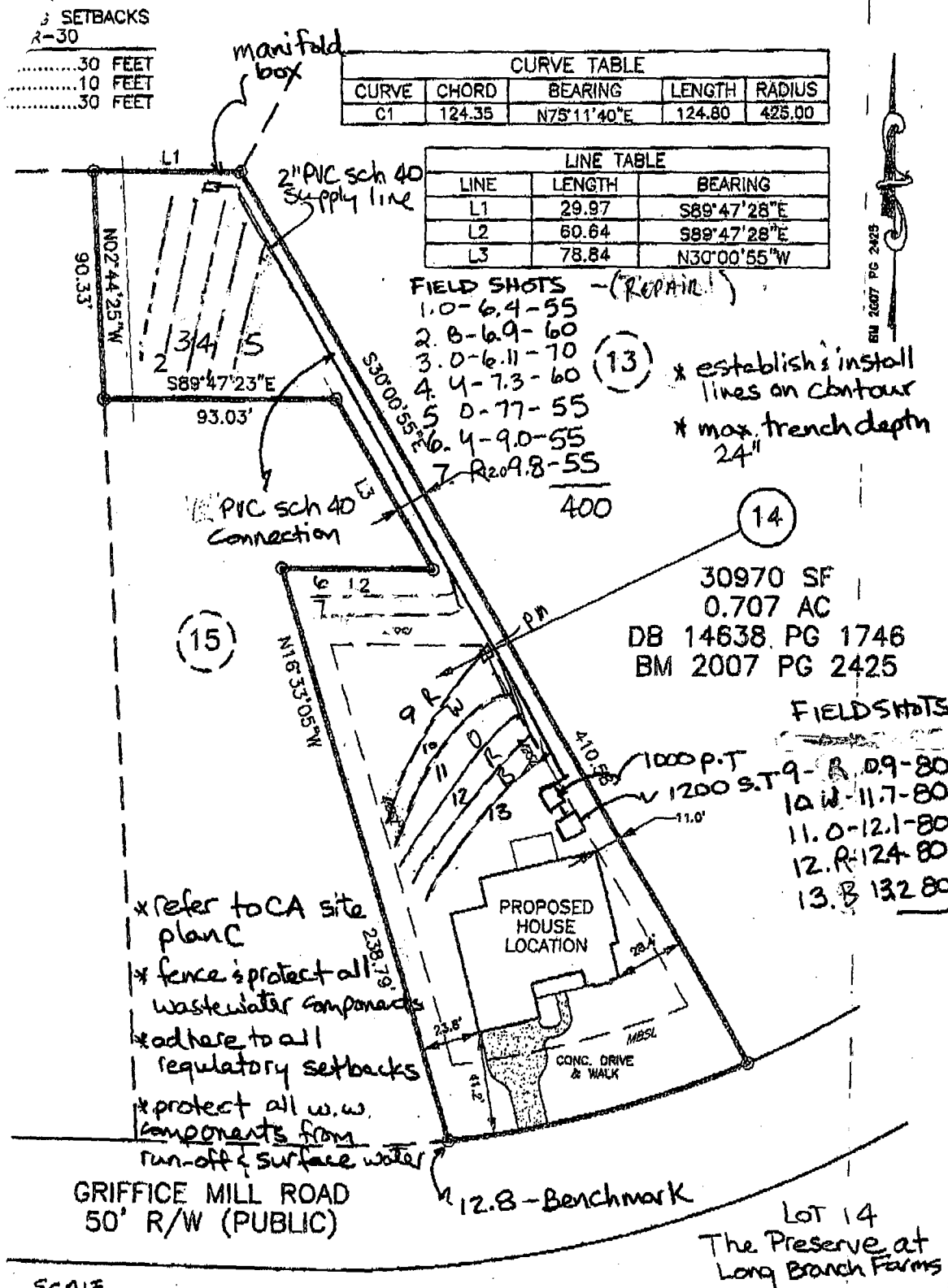
Contractors shall install system on contours, see attached site plan for wastewater system design and well location. No underground utilities, water lines or sprinkler systems may be located in the original system or repair areas. A septic tank filter with a riser for access is required. The wastewater system shall not be covered or placed into use until inspected by the Wake County Department of Environmental Services and an Operation Permit issued. An Accepted Status System may be used in place of conventional system, if it can be placed in the permitted/authorized trench footprint (except reduction in line length and/or number as allowed for in approval) and the installation is in accordance with the accepted system approval, without unauthorized product alteration. If permit required use of an Accepted Status System, substitution with another accepted status system may be made, as long as no changes are necessary in the location of each nitrification line (including any increase in line length), trench depth or effluent distribution method. If changes are necessary, prior approval by this office is required before system installation. **OTHER CONDITIONS:**

1200 GAL SEPTIC TANK. 1200 GAL PUMP TANK. 5(80'X3') ACCEPTED STATUS SYSTEM 24" TRENCH DEPTH. PUMP TO MANIFOLD. NEMA 4X PANEL BOX OR EQUIVALENT, WITH CYCLE COUNTER AND ELAPSED TIME METER. IF FLAGS MISSING CALL CONSULTANT TO REFLAG INITIAL AREA. CALL WITH ANY QUESTIONS, CHANGES OR CONCERNS.

TANK SIZE: 1200 gal. PUMP TANK: 1200 gal. SQ FT: 1200 INNOVATIVE MAX DEPTH LINE: 24 in.
MAINT: N OPER: N L/O: P TRENCH#: 5 LENGTH: 80 ft. WIDTH: 36 in. DESIGNER: N FLOYD
SUBFIELDS: _ DESIGN HEAD PRESSURE: 2 DESIGN FLOW: 27.40 gal/min DOSE VOLUME: 182 gal.

CA ISSUED? Y DATE: 08/24/2012 BY: (CHH) *Christine Hayes RGH* PHONE#: 868-2564

CA



C.A. Part C

Pressure Manifold Design Criteria

570-0004 D

Applicant: Tony Woodard Phone #: 771-1467 M

Mailing Address: 111 Black Forest Dr., Clayton, NC 27527

PIN: _____ D#: _____ S/D: Preserve at Lot#: 14

Site Address: 3612 Griffice Mill Long Branch Farms

BDR: 4 Daily Flow: 480 Square Ft: _____ Linear Feet: 400

LTAR: 0.3 gpd/sqft LTAR w/ innov: 0.4 gpd/sqft

Septic Tank (gal): 1200 Pump Tank (gal): 1000

Length of Trenches (ft): see tap chart Trench Depth (in): 24" Stone Depth (in): NA (innovative)

Supply Line Length (ft): 290 Diameter: 2" sch 40 pvc

Manifold Length (in): 60 Diameter: 4 sch 80 pvc Elevation: 114

Taps 7 Tap Configuration: 6" spacing, 1 side(s) of manifold

Pump Tank Elevation: 107 Pump Elevation (ft): 101

Simplex Control Panel (SJE Rhombus 112 or equal) with elapsed time meter, cycle counter, alarm, and pump on separate circuits 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: Sp 50 H or equiv. Zoeller: _____ 3.03' / 100' of 2" PVC sch 40

Friction Head (ft): 10.5 (supply line length + 20% fittings loss)
Elevation Head (ft): 13 Design Head (ft): 2 Total Head (ft): 25.5

Dose Volume (gal): 196 with Pipe Volume at % 75
Pump to Deliver: 40 gpm @ 26 ft head

Dose PRT(min): 5.0 Daily PRT(min): 12.5

Drawdown: 196 gallons divided by 21 gal/ inch = 9.3 inches

Tap Chart

Line	Color	Relative Elevation	Drainline Length(ft)	Tap Size/ Schedule	flow (gpm) per tap	gpd	Trench Area	LTAR gpd/sqft
1	O	114.6	55	1/2 sch 80	5.5	68.75	165	0.416
2	B	114.1	60				180	0.38
3	O	114.91	60				180	0.38
4	Y	113.87	60				180	0.38
5	O	113.83	55			68.75	165	0.38
6	Y	112.0	55				165	0.38
7	R	112.0	55				165	0.38
					38.5			
					38.36			
					400			

Review of this document has been made only for conformance with the design concept of the project and approval or approval as noted shall not relieve the designer and/or contractor from responsibility for any errors therein or for furnishing the materials, and equipment of proper dimension, size, quantity, quality and all performance characteristics to meet the requirements and intent of the contract documents.

() APPROVED
() APPROVED AS NOTED
() DISAPPROVED

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

Date 3-15-12 By [Signature]

Neal C. Floyd & Associates, Inc.

manifold specifications

Designed & layout

Neal Floyd & Assoc. Inc.
7908 Audubon Drive
Raleigh NC 27615

O-422-6745
FAX-676-8395

For

Chris Whitehorne, Bldg.
2621 Forest Lake Ct.
Wake Forest, N.C. 27585

Office 570-0004

Lot 14 Preserve at Long Branch Farms
3612 Griffice Mill

480 gpd

0.3 gpd/ft² LTAR

Reserve lines 9-13		- 5x80' - E2 Flow				Line LTAR
Line C	Length	Tap Size	flow	gpd	T.A.	
9	B- 80	1/2 Sch 40	7.1 gpm	96	240	0.4
10	R-					
11	O-					
12	P-					
13	Y-					
400			35.5			

pump run - 13.5

C A Part B

DING SETBACKS
R-30

.....30 FEET
.....10 FEET
.....30 FEET

CURVE TABLE				
CURVE	CHORD	BEARING	LENGTH	RADIUS
C1	124.35	N75°11'40"E	124.80	425.00

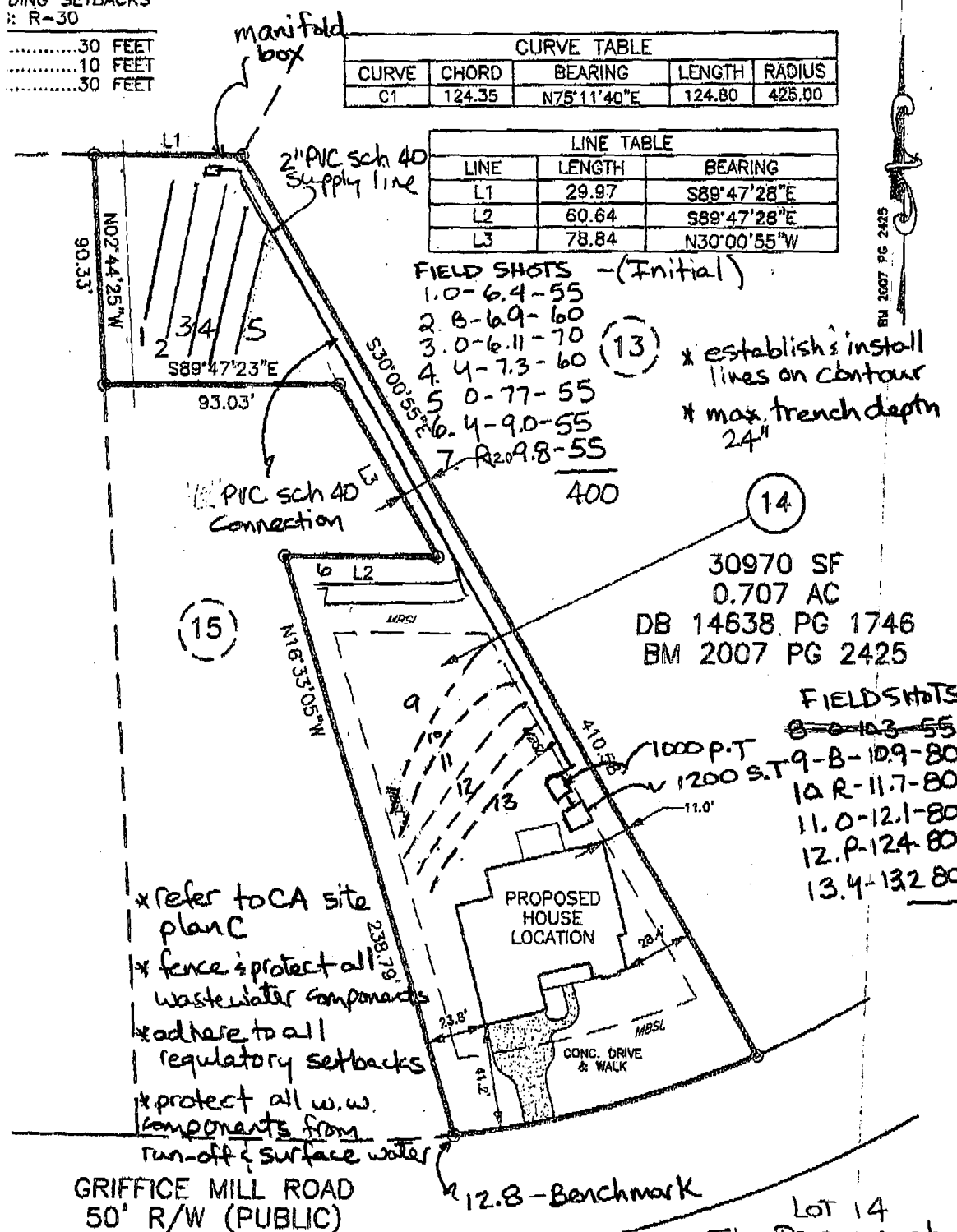
LINE TABLE		
LINE	LENGTH	BEARING
L1	29.97	S89°47'28"E
L2	60.64	S89°47'28"E
L3	78.84	N30°00'55"W

FIELD SHOTS - (Initial)

1.0-6.4-55
2.8-6.9-60
3.0-6.11-70
4.4-7.3-60
5.0-7.7-55
6.4-9.0-55
7.2-9.8-55

400

* establish install
lines on contour
* max. trench depth
24"



* refer to CA site
plan C
* fence & protect all
wastewater components
* adhere to all
regulatory setbacks
* protect all w.w.
components from
run-off & surface water

GRIFFICE MILL ROAD
50' R/W (PUBLIC)

30970 SF
0.707 AC
DB 14638 PG 1746
BM 2007 PG 2425

FIELD SHOTS

8.0-10.3-55
9.8-10.9-80
10.8-11.7-80
11.0-12.1-80
12.8-12.4-80
13.4-13.2-80

Reserve

12.8-Benchmark

Lot 14
The Preserve at
Long Branch Farms

SCALE

1"=60'

Azimuth Land Surv, P.C.

NOTES:

PUBLIC WATER SYSTEM
WELL
PUBLIC SEWER SYSTEM
PROPOSED HOUSE DIMENSIONS:

YES NO
YES NO
YES NO

62.75' x 60.0'

IMPERVIOUS SURFACE TABLE

HOUSE

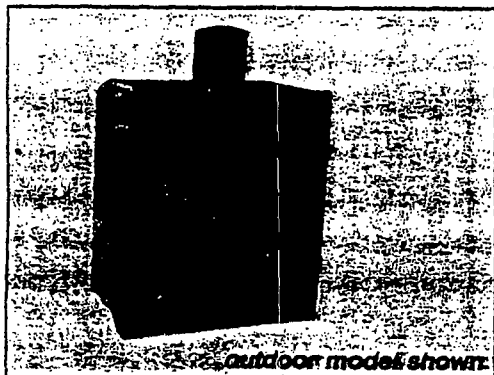
3264 SF

ATE ROAD FRONTAGE? YES NO
CORDED EASEMENT? YES NO

SS DRIVE DRAINAGE CULVERT

MODEL 122 control panels

Single-phase, duplex alternating pump control with override.



outdoor model shown.

APPLICATIONS

The Model 122 control panel is designed to alternately control two 120, 208, or 230 VAC single-phase pumps for residential and commercial water and sewage systems. The alternating action equalizes pump wear. In addition to the alternating pump control, this system provides override control should either pump fail. If an alarm condition occurs, an alarm switch activates the audio/visual alarm system. Common applications include lift stations, pump chambers, sump pump basins, and irrigation systems.

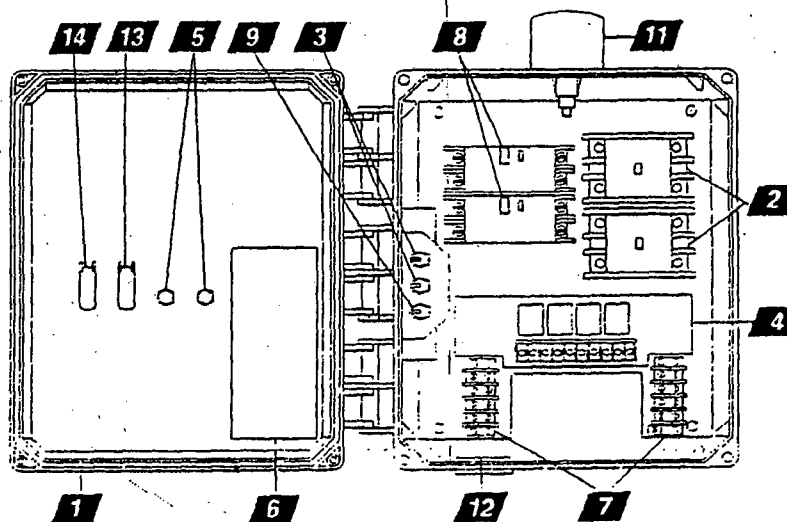
FEATURES

- Entire control system (panel and switches) is UL Labeled to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Package includes float switches (optional)
- Complete, step-by-step installation instructions included
- Two-year limited warranty



- 1** Enclosure measures 12 x 10 x 6 inches (30.48 x 25.4 x 15.24 cm) with removable mounting flanges. Choice of NEMA 1 (engineered thermoplastic for indoor use), or NEMA 4X (ultraviolet stabilized thermoplastic for outdoor use).
- 2** Magnetic Motor Contactors control pumps by switching both electrical lines
- 3** HOA Switches provide manual pump control
- 4** Control Circuit Board provides pump control and alternation (U.S. patent pending)
- 5** Green Pump Run Indicator Lights
- 6** Schematic / Wiring Diagram
- 7** Incoming Pump Power Terminal Block / Pump Terminal Blocks
- 8** Circuit Breakers (optional) provide pump disconnect
- 9** Control ON/OFF Switch
- 10** Ground Lug (not shown)

Model Shown 1221W114X



ALARM PACKAGE (OPTIONAL)

- 11** Red Alarm Beacon provides 360° visual check of alarm condition
- 12** Alarm Horn provides audio warning of alarm condition (83 to 85 decibel rating)
- 13** Exterior Horn Silence Switch allows alarm horn to be silenced. Alarm resets automatically after alarm condition has been resolved.
- 14** Exterior Alarm Test Switch allows for testing of horn and light to ensure proper operation of alarm system

MODEL 112

112 **1** **W** **1** **1/2** **4** **H** **8A, 8C, 15A**

ALARM PACKAGE
☐ 0 = select options or no alarm package
☒ 1 = alarm package (includes test/maintenance switch, fuse, red light, horn & float)

ENCLOSURE/RATING
☐ I = indoor, NEMA 1 (metal)
☒ W = Weatherproof, NEMA 4X (engineered thermoplastic)

STARTING DEVICE
☐ 1 = magnetic motor contactor 120/208/240V
☒ 9 = magnetic motor contactor 120V only

PUMP FULL LOAD AMPS
☐ 0 = 0-7 FLA
☐ 1 = 8-15 FLA
☒ 2 = 16-20 FLA
☐ 3 = 21-30 FLA

PUMP DISCONNECTS
☐ 0 = no pump disconnect
☐ 1 = pull-out with safety deadfront in a 10"x6" enclosure
☒ 4 = circuit breaker

FLOAT SWITCH APPLICATION
☐ H or L = pump down/up pump up
☒ X = no floats

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 ☐ 1A Red beacon only / no audio must select 1E if floats included ☐ 1C Horn only / no visual must select 1E if floats included ☐ 1E Alarm flash ☐ 3A Alarm flasher ☒ 4A Low level cutoff select option 4D if floats included ☐ 4B Red low-level indicator & alarm must select 4A also ☐ 4D Low-level float ☐ 6A Auxiliary alarm contact, term C type ☒ 7AElapsed time meter ☐ 9C Event (cycle) counter ☐ 10E Lockable latch - NEMA 4X ☐ 10F Lightning arrester ☐ 10K Anti-condensation heater	CODE DESCRIPTION ☐ 11C NEMA 1 alarm panel must select option 6A ☐ 11D NEMA 4X alarm panel must select option 6B ☐ 15A Control / alarm circuit breaker Does not include the circuit board as is standard. ☐ 16A 10' cord in lieu of 20' ☐ 16B 15' cord in lieu of 20' ☐ 16C 30' cord in lieu of 20' ☐ 16D 40' cord in lieu of 20' ☐ 17A S/E SignalMaster® / mounting strap Ⓢ ☐ 17B S/E SignalMaster® / externally weighted Ⓢ ☐ 17C Sensor Float® / internally weighted Ⓢ ☐ 17D Sensor Float® / externally weighted Ⓢ ☐ 17E Sensor Float® Mini / pipe clamp Ⓢ ☐ 17F Sensor Float® Mini / externally weighted Ⓢ ☐ 18X Door mounted pump run indicator ☐ 21A PumpMaster® in lieu of on/off switches Ⓢ ☐ 21B PumpMaster® Plus in lieu of on/off switches Ⓢ ☐ 21C Super Single® in lieu of on/off switches Ⓢ ☐ 21D Double Float® in lieu of on/off switches Ⓢ Ⓢ Mechanically-actuated Ⓢ Mercury-actuated
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SAMPLE

MODEL **112** **1** **W** **9** **1** **4** **H** **3A 8A**

Alarm Package _____

Enclosure Rating _____

Starting Device _____

Pump Full Load Amps _____

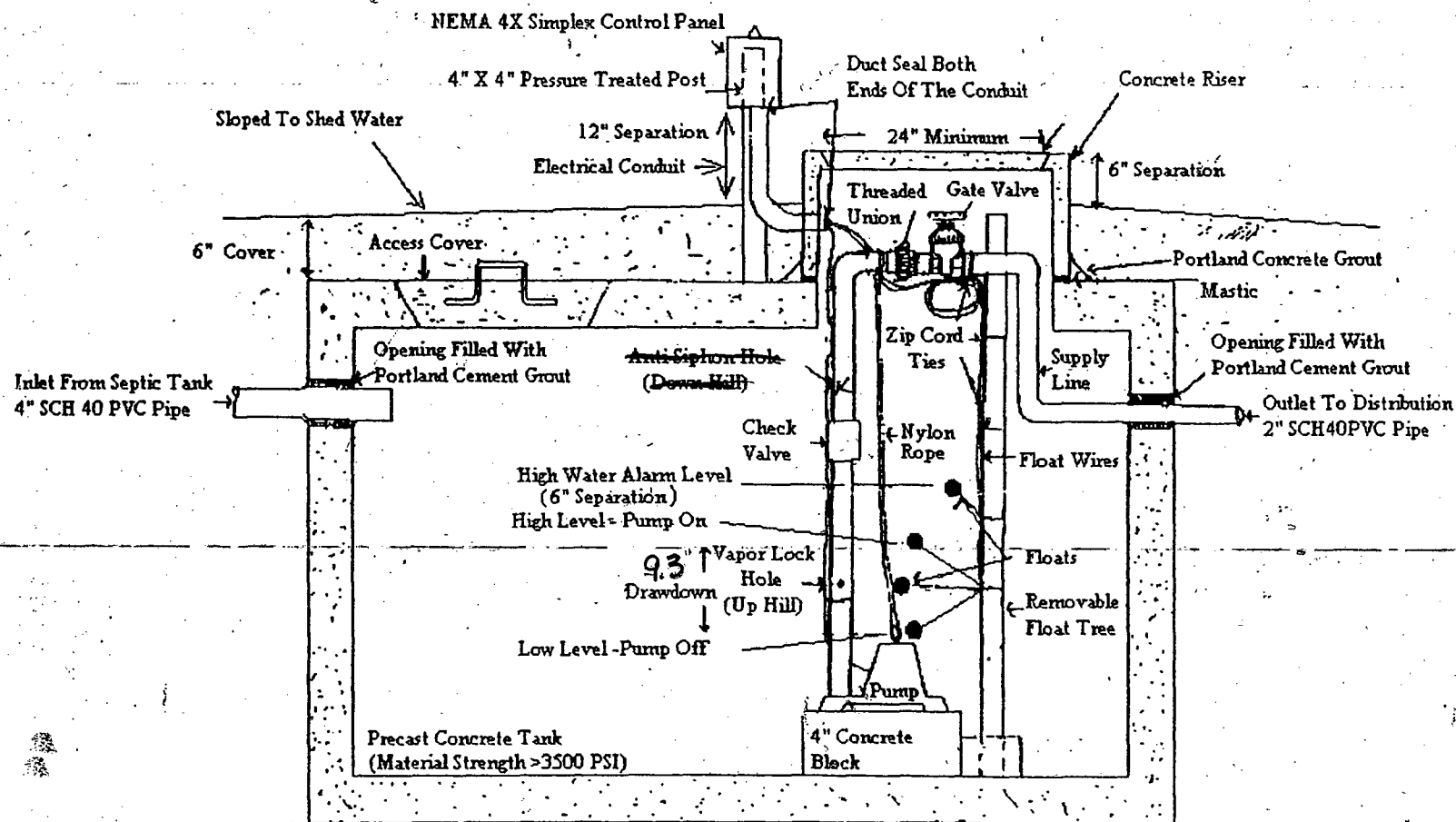
Pump Disconnect _____

Float Switch Application _____

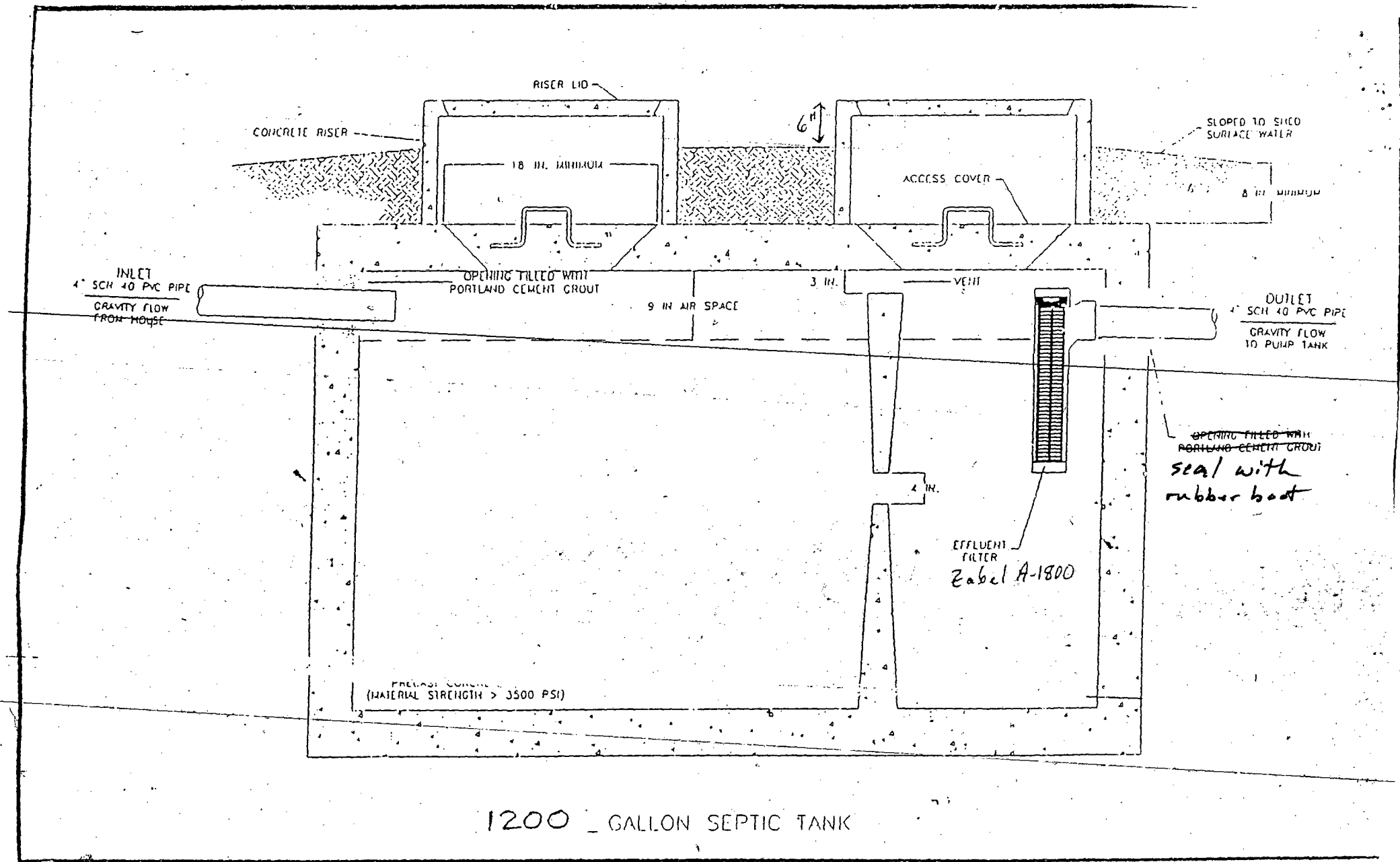
Options: Alarm Flasher, Elapsed Time Meter _____

© 2000 Pro-Line Panel in USA 61/00
 Cnt Page No 0001009

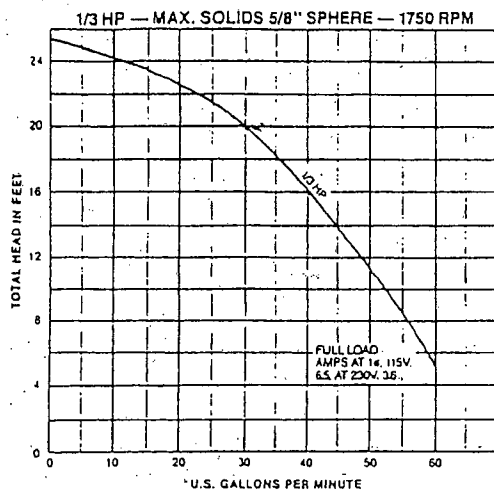
Wake County Department Of Environmental Services



1200 GALLON PUMP TANK

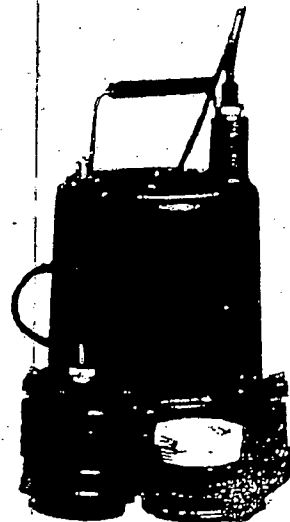


OSP33

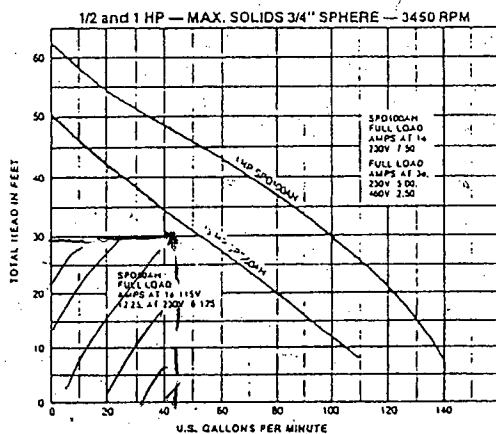


- Available in automatic or manual.
- Completely submersible.
- Non-clog bronze impeller.
- No suction screens to clean.
- Oil-filled, double ball bearing motor with built-in overload protection.
- Reliable diaphragm switch with piggyback plug-in.
- Rugged cast iron construction.
- Completely field serviceable.
- 1 1/2" NPT discharge.

SPLIT PHASE



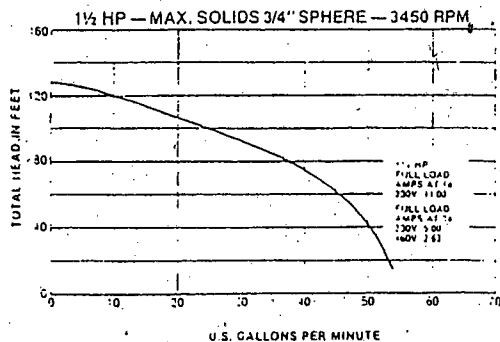
SPD50H/SPD100H



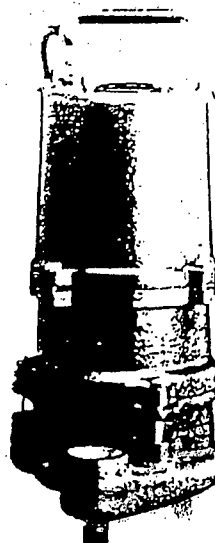
- Available in manual or automatic.
- Dual seals standard. Seal failure sensor capability available (to be wired to an alarm device) on manual pumps.
- Open two-vane sewage type impeller.
- Pump shaft and all fasteners are stainless steel.
- 1/2 HP (SPD50H) and 1 HP (SPD100H) motors. Ball bearing construction and oil-filled.
- 2" NPT discharge (3" flange optional).



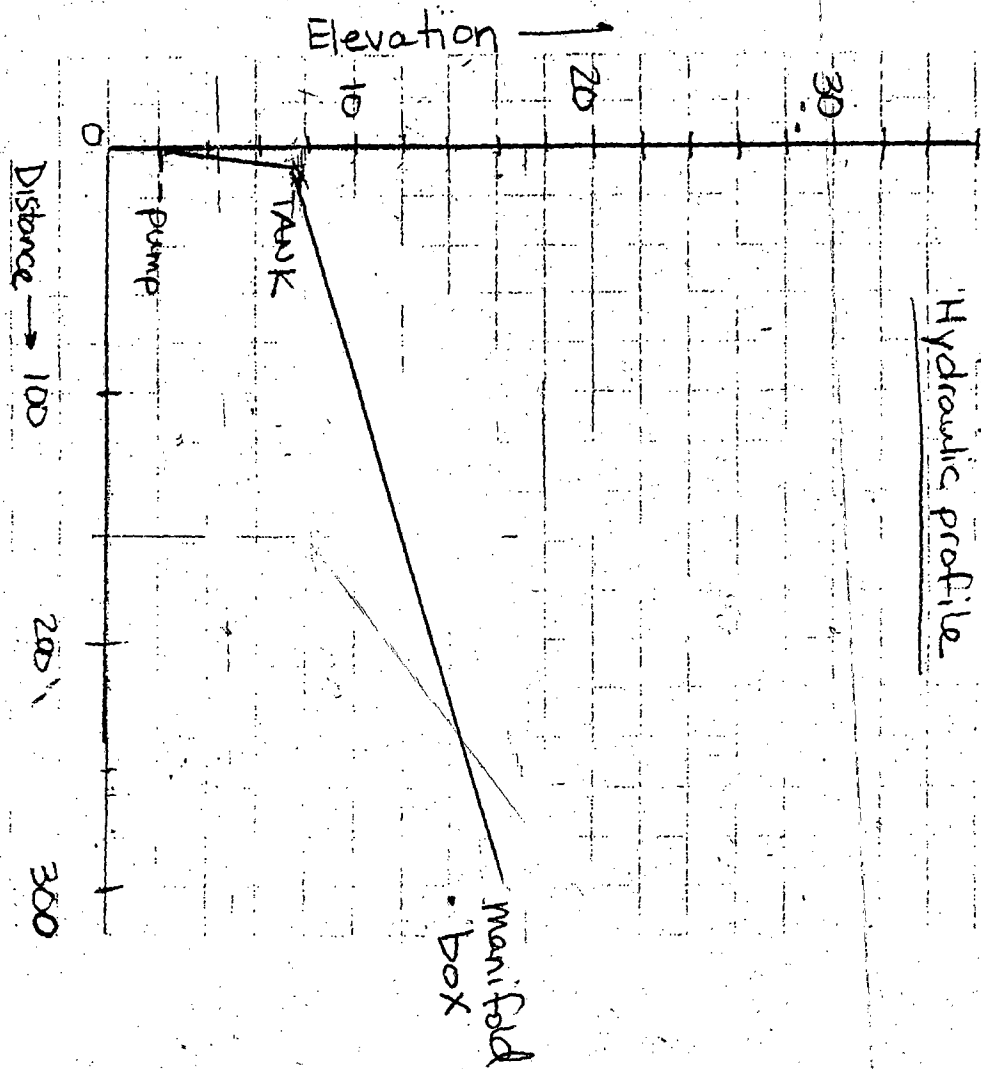
SKHD150



- Semi-open thermoplastic impeller.
- 1 1/2 HP, oil-filled motor.
- Pump shaft and all fasteners are stainless steel.
- 1 1/2" NPT discharge.
- Spring loaded mechanical seal with carbon and ceramic faces.
- Pump-out vanes on rear shroud of impeller.
- Dual seals. Seal failure sensor capability available (to be wired to an alarm device).



Supply line
Hydraulic profile



PRESSURE MANIFOLD DESIGN

Bench Mark		is = 100.00	set at	Design Head:					2
Pump tank elev.		6	94.00	Pump elev.	89.00	Manifold elev.		90.10	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	R	10.9	89.10	80	1/2in SCH 80	5.48	96.00	240	0.400
2	W	11.7	88.30	80	1/2in SCH 80	5.48	96.00	240	0.400
3	O	12.1	87.90	80	1/2in SCH 80	5.48	96.00	240	0.400
4	R	12.4	87.60	80	1/2in SCH 80	5.48	96.00	240	0.400
5	B	13.2	86.80	80	1/2in SCH 80	5.48	96.00	240	0.400
6			100.00		NA		0.00	0	#DIV/0!
7			100.00		NA		0.00	0	#DIV/0!
8			100.00		NA		0.00	0	#DIV/0!
		total	feet =	400	gal/min =	27.4	<u>LTAR =</u>		0.30
% of Dose Vol.		70	<u>Des. Flow</u>		480	(ltar + 5%)		0.32	
Dose Volume		182	Pump Run=		17.52	(ltar W/ INOV)		0.40	
Dose Pump Time		6.64	Tank Gal/IN		20.45	(ltar + 5%)		0.42	
Drawdown in Inches		8.9	Elev. Head		1.10				
Supply Line Length									
Comments:									