

















# Swimming Pool Permit Requirements FOR OWNER/BUILDER

-  Permit Application
-  Disclosure Statement
-  Flagler County Tree Protection Form
-  Affidavit of Drainage Control
-  Residential Swimming Pool Safety Act form
-  Notice of Commencement if over \$5,000.00 (Recorded and Certified copy not required until first inspection)
-  Copy of Warranty Deed (A copy of the Recorded Deed can be obtained from Flagler County Clerk's office, Recording Department.) <https://apps.flaglerclerk.com/Landmark/>
-  Signed and Sealed Site Plan illustrating the existing & proposed grading per 98-03
-  Survey showing proposed location of pool and all existing structures
-  Existing septic tank and drain field location (can be added to site plan)
-  Signed and sealed swimming pool construction drawings; include digital set with validated signature/stamp on a USB memory storage drive.
-  Cut sheets for all equipment (outlet covers, pumps, filters, etc.)
-  Pool layout drawings with pool surface area identified
-  ANSI 5,7, and 15 worksheet or manufacturer's worksheet demonstrating compliance with all three (3) standards

\*\*\* THIS LIST IS INTENDED ONLY AS A GUIDE LINE FOR APPLICATION SUBMITTAL AND MAY OR MAY NOT BE ALL INCLUSIVE\*\*\*

**It is the applicant's responsibility to produce Notice of Commencement as specified in Florida Statute Chapter 713.13 prior to the scheduling of inspections. All inspections must be complete to close out the permit when the project is complete. Failure to close out permits may result in additional fees and/or suspension of rights to obtain additional permits.**



# Flagler County Building Permit Application

<b>FOR BUILDING USE ONLY</b>
Permit # _____
Code # _____
Date _____

1. **Property Owners Name:** \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_ E-mail: \_\_\_\_\_

2. **Location of Property/ Job Address:** \_\_\_\_\_  
 Legal Description: \_\_\_\_\_  
 Parcel #: \_\_\_\_\_ Block: \_\_\_\_\_ Lot: \_\_\_\_\_

3. **Contractor / Installer:** \_\_\_\_\_  
 Address: \_\_\_\_\_ State License: \_\_\_\_\_  
 City/State/Zip Code: \_\_\_\_\_ Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_ Cell #: \_\_\_\_\_  
 E-mail: \_\_\_\_\_

4. **Description of Work:** \_\_\_\_\_  
 **Commercial**  **Residential**  
**Mobile Home:** Make \_\_\_\_\_ Model \_\_\_\_\_ Year \_\_\_\_\_ Serial Number: \_\_\_\_\_  
 Specify Single or Double Wide \_\_\_\_\_ Width: \_\_\_\_\_ x Length: \_\_\_\_\_ (*without hitch*)=Sq Ft: \_\_\_\_\_  
 Is this a replacement home?  YES or  NO (*If yes provide proof*)

5. **Total Square Footage Under Roof:** \_\_\_\_\_

6. **Type of Construction, Occupancy Classification and Area Totals:**

Type of Construction (check one):

IA	IB	IIA	IIB	IIIA	IIIB	IV	VA	VB
----	----	-----	-----	------	------	----	----	----

Occupancy Classification (check one):

A-1	A-2	A-3	A-4	B	E	F-1	F-2	H-1	H23	H-5	I-1
I-2	I-3	I-4	M	R-1	R-2	R-3	R-4	S-1	S-2	U	

Living Area: \_\_\_\_\_ Square feet. Non Living: \_\_\_\_\_ Square feet.  
 Number of Rooms (total): \_\_\_\_\_ Number of Bedrooms: \_\_\_\_\_ Number of Bathrooms: \_\_\_\_\_  
 Number of Stories: \_\_\_\_\_ Habitable Floors: \_\_\_\_\_ Number of Elevators: \_\_\_\_\_  
 Patio: \_\_\_\_\_ Square feet. Driveway: \_\_\_\_\_ x \_\_\_\_\_ Pool Area (including deck): \_\_\_\_\_  
 Fire Sprinklers:  YES or  NO (*If yes, separate permit required*)

7. **Potable Water Supplied by:** \_\_\_\_\_ **Septic Tank Permit #:** \_\_\_\_\_  
**or Water and Sewer Company:** \_\_\_\_\_

8. **Total Cost of Improvements:** \_\_\_\_\_

9. **Sub Contractor Information:**

**Electrical Contractor:**

DBA:	License Holders Name:
State License Number:	Size of Electrical Service: Phase: _____ Amps: _____

**Plumbing Contractor:**

DBA:	License Holders Name:
State License Number:	Number of Bathrooms :
Number of Drains :	

**Mechanical Contractor:**

DBA:	License Holders Name:
State License Number:	Total Cost of Mechanical :
Size of Unit	tons.

**Roofing Contractor:**

DBA:	License Holders Name:
State License Number:	Total Cost of Roof :
Type of Roof to be Installed:	Square Footage of Structure:

**Aluminum Contractor:**

DBA:	License Holders Name:
State License Number:	Total Cost of Aluminum Structure:
Square Footage under Solid Roof Panels :	

**Gas Contractor:**

DBA:	License Holders Name:
State License Number:	Total Number of Outlets:

**Elevator:**

DBA:	License Holders Name:
State License Number:	Total Cost of Elevator:

**Others Contractor:**

DBA:	License Holders Name:
State License Number:	Total Cost of Others:

*Application is hereby made to obtain a permit to do the work and installations as indicated. I certify that no work has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating construction in this jurisdiction.*

**“FAILURE TO COMPLY WITH THE MECHANICS LIEN LAW CAN RESULT IN THE PROPERTY OWNER PAYING TWICE FOR THE BUILDING IMPROVEMENTS”**

\_\_\_\_\_  
(Signature) (Printed Name)

IS SIGNING AS:    CONTRACTOR    MOBILE HOME INSTALLER    OWNER\*    (Check one)

State of \_\_\_\_\_ County of \_\_\_\_\_

Sworn to and Subscribed before me, the \_\_\_\_\_ Day of \_\_\_\_\_, 20\_\_\_\_ by \_\_\_\_\_ who is personally known to me or has produced \_\_\_\_\_ as identification.  
(Type of Identification)

\_\_\_\_\_  
Signature of Notary Public or Staff Signature\*    Print, Type or Stamp of Notary

**\*To qualify as an owner/builder, the owner of the property must personally appear at Central Permitting and sign this application. (FS §489.103.7b)**



Permit Number: \_\_\_\_\_

**OWNER BUILDER**  
**STATEMENT/AFFIDAVIT**

Page 1 of 2

Florida Statutes are quoted here in part for you information to indicate the authority for exemptions for homeowners from qualifying as contractor and to express any applicable restrictions and responsibilities

**OWNERS MUST PERSONALLY APPEAR AT CENTRAL PERMITTING**  
**TO SIGN THIS DOCUMENT AND THE PERMIT APPLICATION**

**BY SIGNING THIS STATEMENT, I ATTEST: (*Initial to the left of each statement*)**

	I understand that state law requires constructions to be done by licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that. I as the owners of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.
	I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.
	I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed in Florida and to list his or her license numbers on all permit and contractor.
	I understand that I may build or improve a one-family or two-family residence or a farm outbuilding. I may also build or improve a commercial building if costs do exceed \$75,000.00. The building or residence must be my only use or occupancy. It may not be built or substantially improved for sale or lease. If a building or residence that I have built or substantially improve myself is sold or leased within in 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates this exemption.
	I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.
	I understand that I may not hire an unlicensed individual person to act as my contractor or to supervise person working on my building or residence. It is my responsibility to ensure that the person whom I employ have the licenses required by law and by county ordinance.
	I understand that it is a frequent practice of unlicensed person to have the property owner obtain owner-builder permit that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and I am aware of the limits of my insurance coverage for injuries to workers on my property.
	I understand that I may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. <u>Any person working on my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal insurance Contributions Act (FICA) and provide workers compensation for the employee.</u> I understand that my failure to follow these laws my subject me to serious financial risk.



## OWNER BUILDER STATEMENT/AFFIDAVIT

	I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builder as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.
	I am aware of construction practices and I have access to the Florida Building Code.
	I understand that I may obtain more information regarding my obligations as an employer from internal Revenue Service the United States Small Business Administration, the Florida Department of Financial services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry License Board at 1-850-487-1395 or at <a href="http://www.myflorida.com/dbpr/pro/cilb/">www.myflorida.com/dbpr/pro/cilb/</a> for more information about licensed contractors.
	I am aware of, and consent, to an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the address listed below.
	I agree to notify the building department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure or in the permit application package.
	Licensed contractors are regulated by laws designed to protect the public. If you contractor with a person does not have license, the Construction Industry Licensing Board, the Department of Business and Professional Regulations and the building department may be unable to assist you with any financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you understand that, if an unlicensed contractor or employee of an individual or firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is property licensed and status of contractor workers compensation coverage.
	I agree to comply with all provisions of the county ordinances and codes pertinent to the building.
	In the event the corrections are required to be completed for code violations, I will assume responsibility to insure they are made and up completion I will call for a reinspection before proceeding with building.
	I will assume full responsibility for the construction and I will not expect supervision of my work from the Building Department.
	I agree to pay any additional fees, including reinspections fees in full prior to requesting a final inspection.

### THE BELOW AFFIDAVIT MUST BE SIGNED IN FRONT OF A PERMIT TECHNICIAN

Property Address: \_\_\_\_\_.

I, \_\_\_\_\_, do hereby state that I am qualified and capable of performing the requested construction involved with the permit application filed and agree to the conditions specified above.

\_\_\_\_\_  
Signature of Owner-Builder

\_\_\_\_\_  
Date

\_\_\_\_\_  
Form of identification:  
(Must be Photo ID)

\_\_\_\_\_  
Permit Technician Signature

**A Violation of this exemption is a misdemeanor of the first degree punishable by term of imprisonment not exceeding 1 year and a \$1,000.00 fine in addition to any civil penalties. In addition, the local permitting jurisdiction shall withhold final approval, revoke the permit, or pursue any action or remedy for unlicensed activity against the owner and any person performing work that requires licensure under the permit issued.**



## Pulling an Owner/Builder Permit is Risky Business!



If you do not intend to do the work yourself and have been asked by someone without a contractor's license to pull the permit, you are at risk of financial harm.

**Section 489.103 (7), Florida Statutes** requires that when property owners act as their own contractor, they must supervise the work being performed. Any person working on your building who is not licensed must be employed by you, which means that you must deduct F.I.C.A. and withholding tax and provide workers' compensation for that employee.

Without workers' compensation insurance, you could be held liable for injuries incurred on your property. Typically, your homeowners' insurance policy will not honor your claim if the work being performed required a licensed contractor. You could end up responsible for thousands of dollars of medical bills.



**Not only is it dangerous, but it's against the law.**

**Section 455.227(1)(J), Florida Statutes** prohibits any person from aiding, assisting, procuring, employing or advising any unlicensed person or entity. Individuals who aid unlicensed persons may face fines of up to \$5,000.

## Is it worth it?

For more information, speak with your local building department before you apply for a permit or contact the Department of Business and Professional Regulation at 850.487.1395 or online at [www.MyFloridaLicense.com](http://www.MyFloridaLicense.com)





**Residential Tree Protection Compliance, LDC §6.01.03**

Each single-family residential lot must preserve or replant at least fifty (50) percent of the total pre-development caliper inches existing on the site.

- Trees located within or immediately adjacent to (within ten (10) feet of the foundation, or where the crown or rootball extend within the limits of the foundation whichever is greater as to its encroachment) the building foundation are exempt.

Tree Category	Pre-devel. Caliper Inches per Tree Category	Minimum Required for each Tree Category (Pre-devel X 50%)	Saved Trees Inches	Planted Replacement Trees Proposed per Minimums Sizes for each Tree Category						Post = Saved + Planted
				Protected 2.5" Caliper		Specimen 3.5" Caliper		Historic 6" Caliper		
				Count	Total Inches	Count	Total Inches	Count	Total Inches	
Protected (6-17 inch)										
Specimen (18-35 inch)										
Historic (36 inch or greater)										
<b>Total:</b>										

\*All tree diameters/calipers measured in inches

Planted Replacement Trees	
Common Name and Quantity of Tree:	Respective Caliper Inches:
<i>Example:</i> 3 Oak	2.5", 2.5", 3.5"
1 Maple	6"
<b>Total:</b>	<b>Total:</b>



**Please initial the following statement ONLY if no Protected Trees over 6 inches in caliper exist on the property.**

\_\_\_\_\_ I certify that no protected trees exist on the above-described property for which a building permit is sought.

**Please initial the following statement ONLY if no Trees will be removed from the property.**

\_\_\_\_\_ I certify that no trees will be removed on the above-described property for which a building permit is sought.

**Please sign below to certify that the above information is true and accurate.**

\_\_\_\_\_  
Owner/Agent Signature

\_\_\_\_\_  
Date



FLAGLER COUNTY
AFFIDAVIT OF DRAINAGE CONTROL FOR
RESIDENTIAL AND MINOR COMMERCIAL CONSTRUCTION

Building Permit Number:
(OFFICE USE ONLY)

A. OWNER/SITE INFORMATION:

Name of Owner: Phone Number:
Address:
Subdivision Name: Lot Number of Site:
Tax Parcel Number: Section: Township: Range:

B. CERTIFICATE OF COMPLIANCE:

The undersigned owner of the above-described property hereby certifies that development of the above property will not result in:

- 1. Flooding of adjacent lands.
2. Blockage of existing drainage systems, natural or manmade.
3. The destruction of existing drainage systems, natural or manmade.
4. Erosion of fill or disturbed materials onto adjacent lands or environmentally sensitive areas (as determined by Flagler County).
5. The destruction of roadside drainage swales, roadway pavement and/or shoulders.
6. Flooding of the proposed structure during a 100-year frequency storm.
7. Construction to an elevation less than that required by the Flagler County Land Development Code. (Applicant is cautioned UNAUTHORIZED construction may be subject to demolition).
8. Inadequate onsite drainage in the vicinity of the proposed structure.
9. Deviation from the approved grading plan for this property.

C. RELEASE AND AUTHORIZATION:

- 1. The undersigned hereby release and holds harmless the County of Flagler and its authorized agents and/or employees from any and all claims of damage of every kind and nature whatsoever to said property, or contiguous properties, arising from the approval of this application or construction of required improvements.
2. The undersigned hereby grants unto authorized agents and/or employees of the County of Flagler the right to enter upon said property for inspection and enforcement activities. Flagler County reserves the right to require the property owner to implement reasonable measures regarding drainage control including, but not limited to, submittal of signed and sealed engineering drainage plans.

(Signature)

(Printed Name)

State of

County of

Sworn to and Subscribed before me, the Day of, 20 by

who is personally known to me or has produced

as identification.

(Type of Identification)

Signature of Notary Public

Print, Type or Stamp of Notary

Permit # \_\_\_\_\_



## Residential Swimming Pool, Spa and Hot Tub Safety Act

### Notice of Requirements

I (We) acknowledge that a new swimming pool, spa or hot tub will be constructed or installed at (Street Address) \_\_\_\_\_, and hereby that one of the following methods will be used to meet the requirements of Chapter 515, Florida Statutes.

***(PLEASE INITIAL ALL OF THE METHOD(S) TO BE USED FOR YOUR POOL)***

\_\_\_\_ The pool will be isolated from access to the home by an enclosure that meets the pool barrier requirements of Florida Statue 515.29;

\_\_\_\_ The pool will be equipped with an approved safety pool cover that complies with ASTM F1346-91 (Standard Performance Specifications for Safety Covers for Swimming Pools, Spas and Hot Tubs);

\_\_\_\_ All doors and windows providing direct access from the home to the pool shall be equipped with an exit alarm complying with UL2017 and has a minimum sound pressure rating of 85 decibels at 10 feet;

\_\_\_\_ All doors providing direct access from the home to the pool shall be equipped with self-closing, self-latching devices with release mechanisms placed no lower than 54” above the floor or deck;

\_\_\_\_ A swimming pool alarm that, when placed in a pool, sounds an alarm upon detection of an accidental or unauthorized entrance into the water. Such pool alarm shall meet and be independently certified to ASTM Standards F2208, titled “Standard Safety Specification for Residential Pool Alarms.

I understand that not having one of the above safety devices, installed at the time of final inspection, or when the pool is completed for contract purposes, will constitute a violation of Chapter 515m, F.S. and will be considered as committing a misdemeanor of the second degree, punishable by fines up to \$500 and/or up to 60 days in jail as established in Chapter 775, F.S.

\_\_\_\_\_  
Contractor’s Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Contractor’s Name (Please Print)

\_\_\_\_\_  
Owner’s Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Owner’s Name (Please Print)



**Flagler County Growth Management  
Building Services Division**

1769 East Moody Blvd  
Bldg 2, Bunnell, FL 32110  
386-313-4003

**NOTICE OF COMMENCEMENT**

**PERMIT NUM** \_\_\_\_\_

**TAX FOLIO NUM** \_\_\_\_\_

STATE OF FLORIDA  
COUNTY OF FLAGLER

THE UNDERSIGNED HEREBY GIVES NOTICE THAT IMPROVEMENT WILL BE MADE TO CERTAIN REAL PROPERTY AND, IN ACCORDANCE WITH CHAPTER 713, FLORIDA STATUTES, THE FOLLOWING INFORMATION IS PROVIDED IN THIS NOTICE OF COMMENCEMENT.

<b>DESCRIPTION OF PROPERTY</b>	_____
<b>DESCRIPTION OF IMPROVEMENT</b>	_____

**OWNER INFORMATION OR LESSEE INFORMATION IF THE LESSEE CONTRACTED FOR IMPROVEMENT**

<b>NAME</b>	_____	<b>INTEREST IN PROPERTY</b>	_____
<b>ADDRESS</b>	_____		
<b>NAME AND ADDRESS OF FEE SIMPLE TITLEHOLDER - (IF OTHER THAN OWNER)</b>	_____		

<b>CONTRACTOR NAME</b>	_____	<b>PHONE</b>	_____
<b>ADDRESS</b>	_____		

<b>SURETY NAME</b>	_____	<b>PHONE</b>	_____
<b>ADDRESS</b>	_____	<b>BOND AMOUNT</b>	_____

<b>LENDER NAME</b>	_____	<b>PHONE</b>	_____
<b>ADDRESS</b>	_____		

**PERSONS WITHIN THE STATE OF FLORIDA DESIGNATED BY OWNER UPON WHOM NOTICES OR OTHER DOCUMENTS MAY BE SERVED AS PROVIDED BY SECTION 713.13(1)(A)7., FLORIDA STATUTES**

<b>NAME</b>	_____	<b>PHONE</b>	_____
<b>ADDRESS</b>	_____		

**IN ADDITION TO HIM/HERSELF, OWNER DESIGNATES THE FOLLOWING PERSON(S) TO RECEIVE A COPY OF THE LIENOR'S NOTICE AS PROVIDED IN SECTION 713.13(1)(B), FLORIDA STATUTES**

<b>NAME</b>	_____	<b>PHONE</b>	_____
<b>ADDRESS</b>	_____		

**EXPIRATION DATE OF NOTICE OF COMMENCEMENT**

THE EXPIRATION DATE IS 1 YEAR FROM THE DATE OF RECORDING UNLESS A DIFFERENT DATE IS SPECIFIED HERE: \_\_\_\_\_

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

\_\_\_\_\_  
SIGNATURE OF OWNER OR LESSEE, OR OWNER'S OR LESSEE'S AUTHORIZED OFFICER/DIRECTOR/PARTNER/MANAGER

\_\_\_\_\_  
SIGNATORY'S TITLE / OFFICE

**STATE OF FLORIDA COUNTY OF FLAGLER**

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME, BY MEANS OF  PHYSICAL PRESENCE OR  ONLINE NOTARIZATION,

THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, \_\_\_\_\_, BY \_\_\_\_\_  
YEAR NAME OF AFFIANT

PERSONALLY KNOWN \_\_\_\_\_ OR PRODUCED IDENTIFICATION \_\_\_\_\_

\_\_\_\_\_  
SIGNATURE OF NOTARY PUBLIC STATE OF FLORIDA

\_\_\_\_\_  
PRINT, TYPE OR STAMPED COMMISSIONED NAME OF NOTARY PUBLIC

## Swimming Pool Energy Efficiency Compliance Information

NOTE: These Requirements Apply ONLY to the Filtration Pump

### ANSI/SPSP/ICC-15 2011

**Flow Calculations**

Pool water volume \_\_\_\_\_ + 360 = \_\_\_\_\_ gpm - this is the calculated flow rate.

Note: for pools under 13,000 gals. The calculated flow rate or 36 gpm whichever is greater = the filtration flow rate

If there is an Auxillary load on the filtration pump? Yes \_\_\_\_\_ No \_\_\_\_\_

If so, what is the calculated auxillary flow rate \_\_\_\_\_ gpm

Flow Rate (low speed) \_\_\_\_\_ gpm @ \_\_\_\_\_ rpm.

Minimum suction side pipe size @ 6 fps \_\_\_\_\_ in. Minimum suction side branch pipe size @ 6 fps \_\_\_\_\_ in.

Minimum suction side pipe size @ 6 fps \_\_\_\_\_ in. Minimum suction side branch pipe size @ 6 fps \_\_\_\_\_ in.

**Determine Filter Size:**

Filter Factors (GPM/SF)      Cartridge (0.375)      DE (2.0)      Sand (15)

Filter Size: \_\_\_\_\_ / \_\_\_\_\_ = \_\_\_\_\_      \_\_\_\_\_  
 (Flow Rate) (Filter Fact)      Filter Size      (Filter Make and Model)

**Pump Controls**

Filtration pump has no auxillary load – standard time clock \_\_\_\_\_

Filtration pump with auxillary load – Control model for low speed default within 24 hr. \_\_\_\_\_

**Heater Model** \_\_\_\_\_

Gas Heater efficiency rating \_\_\_\_\_ (No Pilot Light)

Heat Pump efficiency C.O.P. \_\_\_\_\_

### ANSI 5 & ANSI 7 Compliance Work Sheet

Determine Simplified TDH:

1. Distance from pool to pump in feet \_\_\_\_\_

2. Fiction loss (in suction pipe) in \_\_\_\_\_ inch pipe per 1 ft. @ \_\_\_\_\_ gpm = \_\_\_\_\_ (from pipe flow/friction loss chart)

3. Fiction loss (in suction pipe) in \_\_\_\_\_ inch pipe per 1 ft. @ \_\_\_\_\_ gpm = \_\_\_\_\_ (from pipe flow/friction loss chart)

TDH in Piping \_\_\_\_\_

Determine Simplified TDH:

Filter/Heater loss in TDH \_\_\_\_\_

4. \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_  
 (Length of Suct. Pipe)      (Ft of head/1 ft. of Pipe)      (TDH Suct. Pipe)

All other losses \_\_\_\_\_

5. \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_  
 (Length of Return Pipe)      (Ft of head/1 ft. of Pipe)      (TDH Suct. Pipe)

Total Dynamic Head (TDH): \_\_\_\_\_

Determine Pipe Sizes:

Branch Piping to be \_\_\_\_\_ inch to keep velocity @ 6 fps max. at \_\_\_\_\_ gpm System Flow Rate.

Trunk, Skimmer &

Suction Piping to be \_\_\_\_\_ inch to keep velocity @ \_\_\_\_\_ fps max. at \_\_\_\_\_ gpm System Flow Rate.

Return Piping to be \_\_\_\_\_ inch to keep velocity @ \_\_\_\_\_ fps max. at \_\_\_\_\_ gpm System Flow Rate

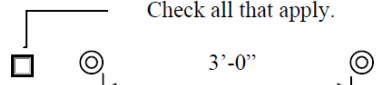
Pump Selection as Listed on Curve A or C (circle one)


Filtration pump \_\_\_\_\_ Maximum Flow Rate \_\_\_\_\_ gpm

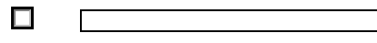
Main Drain Cover \_\_\_\_\_  
(Make and Model)

Determine the Number and Type of Required In-Floor Suction Outlets:

Check all that apply.

 2 \_\_\_\_\_ suction outlets @ \_\_\_\_\_ gpm max. flow

 3 \_\_\_\_\_ suction outlets @ \_\_\_\_\_ gpm max. flow

 \_\_\_\_\_ channel drain @ \_\_\_\_\_ gpm w/ \_\_\_\_\_ ports

Flow and Friction Loss Per Foot Schedule 40 PVC Pipe						
Pipe Size	Velocity - Feet Per Second					
	6 fps		8 fps		10 fps	
1"	16 gpm	0.14'	21 gpm	0.23'	28 gpm	0.35'
1.5"	37 gpm	0.08'	50 gpm	0.14'	62 gpm	0.21'
2"	62 gpm	0.06'	82 gpm	0.10'	103 gpm	0.16'
2.5"	88 gpm	0.05'	117 gpm	0.09'	146 gpm	0.13'
3"	136 gpm	0.04'	181 gpm	0.07'	227 gpm	0.10'
4"	234 gpm	0.03'	313 gpm	0.05'	392 gpm	0.07'
6"	534 gpm	0.02'	712 gpm	0.03'		

TDH Calculation Options  
For each pump

Check one.

Simplified Total Dynamic Head (STDH)  
Complete STDH Worksheet – Fill in all blanks

Total Dynamic Head (TDH)  
Complete Program or other calcs. Fill in required blanks on worksheet & attach calculations.

Maximum Flow Capacity  
Of the new or replacement pump.

_____	OWNER
Date	_____
_____	_____
Contractor Signature	_____
_____	_____
Contractor Cert. No.	_____
_____	_____
Contractor Telephone No.	Scale: None

## Total Head In Feet Conversion Chart

### Inches Mercury (Vacuum Gauge)

	Inches Mercury (Vacuum Gauge)										
		0	2	4	6	8	10	12	14	16	18
PSI (Pressure Gauge)	0	0.0	2.3	4.5	6.8	9.0	11.3	13.6	15.8	18.1	20.3
	1	2.3	4.6	6.8	9.1	11.4	13.6	15.9	18.1	20.4	22.7
	2	4.6	6.9	9.1	11.4	13.7	15.9	18.2	20.4	22.7	25.0
	3	6.9	9.2	11.5	13.7	16.0	18.2	20.5	22.8	25.0	27.3
	4	9.2	11.5	13.8	16.0	18.3	20.5	22.8	25.1	27.3	29.6
	5	11.5	13.8	16.1	18.3	20.6	22.8	25.1	27.4	29.6	31.9
	6	13.9	16.1	18.4	20.6	22.9	25.2	27.4	29.7	31.9	34.2
	7	16.2	18.4	20.7	23.0	25.2	27.5	29.7	32.0	34.3	36.5
	8	18.5	20.7	23.0	25.3	27.5	29.8	32.0	34.3	36.6	38.8
	9	20.8	23.1	25.3	27.6	29.8	32.1	34.3	36.6	38.9	41.1
	10	23.1	25.4	27.6	29.9	32.1	34.4	36.7	38.9	41.2	43.4
	11	25.4	27.7	29.9	32.2	34.5	36.7	39.0	41.2	43.5	45.8
	12	27.7	30.0	32.2	34.5	36.8	39.0	41.3	43.5	45.8	48.1
	13	30.0	32.3	34.5	36.8	39.1	41.3	43.6	45.9	48.1	50.4
	14	32.3	34.6	36.9	39.1	41.4	43.6	45.9	48.2	50.4	52.7
	15	34.6	36.9	39.2	41.4	43.7	45.9	48.2	50.5	52.7	55.0
	16	37.0	39.2	41.5	43.7	46.0	48.3	50.5	52.8	55.0	57.3
	17	39.3	41.5	43.8	46.1	48.3	50.6	52.8	55.1	57.4	59.6
	18	41.6	43.8	46.1	48.4	50.6	52.9	55.1	57.4	59.7	61.9
	19	43.9	46.2	48.4	50.7	52.9	55.2	57.4	59.7	62.0	64.2
	20	46.2	48.5	50.7	53.0	55.2	57.5	59.8	62.0	64.3	66.5
	21	48.5	50.8	53.0	55.3	57.6	59.8	62.1	64.3	66.6	68.9
	22	50.8	53.1	55.3	57.5	59.9	62.1	64.4	66.6	68.9	71.2
	23	53.1	55.4	57.7	59.9	62.2	64.4	66.7	69.0	71.2	73.5
	24	55.4	57.7	60.0	62.2	64.5	66.7	69.0	71.3	73.5	75.8
	25	57.8	60.0	62.3	64.5	66.8	69.1	71.3	73.6	75.8	78.1
	26	60.1	62.3	64.6	68.8	69.1	71.4	73.6	75.9	78.1	80.4
	27	62.4	64.6	66.9	69.2	71.4	73.7	75.9	78.2	80.5	82.7
	28	64.7	66.9	69.2	71.5	73.7	76.0	78.2	80.5	82.8	85.0
	29	67.0	69.3	71.5	73.8	76.0	78.3	80.5	82.8	85.1	87.3
	30	69.3	71.6	73.8	76.1	78.3	80.6	82.9	85.1	87.4	89.6
	31	71.6	73.9	76.1	78.4	80.7	82.9	85.2	87.4	89.7	92.0
	32	73.9	76.2	78.4	80.7	8.30	85.2	87.5	89.7	9.20	94.3
	33	76.2	78.5	80.7	83.0	85.3	87.5	89.8	92.0	94.3	96.6
	34	78.5	80.8	83.1	85.3	87.6	89.8	92.1	94.4	96.6	98.9
35	80.9	83.1	85.4	87.6	89.9	92.2	94.4	96.7	98.9	101.2	