



City of Rochester Hills  
Building Department  
1000 Rochester Hills Dr.  
Rochester Hills, MI 48309  
(248) 656-4615 Phone  
(248) 656-4623 Facsimile

## BUILDING PERMIT APPLICATION



<b>I. LOCATION OF BUILDING</b>				Project # _____	
ADDRESS <u>1431 WASHINGTON</u>		CITY <u>ROCHESTER HILLS</u>	ZIP CODE <u>48306</u>	Permit # PB _____	
SUBDIVISION <u>PARCEL H 70-15-01-001-000</u>		LOT # _____	App Fee \$ _____		
SIDWELL # _____		ZONING DISTRICT _____		Clerk _____	
<b>II. IDENTIFICATION</b>					
<b>A. OWNER OR LESSEE</b>		*REQUIRED EMAIL ADDRESS		FAX NO. _____	
NAME <u>STOLL, JOHN</u>		<u>KIMBERLY.STOLL@GMAIL.COM</u>		TELEPHONE NO. <u>248 990 8890</u>	
ADDRESS <u>1431 WASHINGTON</u>		CITY <u>ROCHESTER HILLS</u>	STATE <u>MI</u>	ZIP CODE <u>48306</u>	
<b>B. ARCHITECT OR ENGINEER</b>		EMAIL ADDRESS		FAX NO. _____	
NAME _____				TELEPHONE NO. _____	
ADDRESS _____		CITY _____	STATE _____	ZIP CODE _____	
LICENSE NUMBER _____				EXPIRATION DATE _____	
<b>C. CONTRACTOR</b>		EMAIL ADDRESS		FAX NO. _____	
NAME <u>WIND SURF &amp; SAIL</u>		<u>KATHY@WINDSURFANDSAIL.COM</u>		TELEPHONE NO. <u>519 549 463</u>	
ADDRESS <u>22250 HALL RD</u>		CITY <u>CLINTON TWP</u>	STATE <u>MI</u>	ZIP CODE <u>48036</u>	
BUILDERS LICENSE NUMBER <u>2103065994</u>				EXPIRATION DATE _____	
FEDERAL EMPLOYER ID NUMBER OR REASON FOR EXEMPTION <u>382651895</u>					
WORKERS COMP INSURANCE CARRIER OR REASON FOR EXEMPTION <u>EMC</u>					
MESC EMPLOYER NUMBER OR REASON FOR EXEMPTION <u>1028020</u>					
<b>III. TYPE OF IMPROVEMENT</b>				ESTIMATED COST OF CONSTRUCTION \$ <u>60,000 -</u>	
1. <input type="checkbox"/> NEW BUILDING	4. <input type="checkbox"/> ALTERATION	7. <input type="checkbox"/> MOBILE HOME SET-UP	10. <input type="checkbox"/> RELOCATION		
2. <input type="checkbox"/> ADDITION	5. <input type="checkbox"/> REPAIR	8. <input type="checkbox"/> FOUNDATION ONLY	11. <input checked="" type="checkbox"/> POOL <input checked="" type="checkbox"/> In Ground <input type="checkbox"/> Above Ground		
3. <input type="checkbox"/> ACCESSORY STRUCTURE	6. <input type="checkbox"/> DEMOLITION	9. <input type="checkbox"/> PRE-MANUFACTURE	12. <input type="checkbox"/> OTHER (SPECIFY) _____		
<b>IV. PROPOSED USE OF BUILDING</b>					
<b>A. RESIDENTIAL</b>					
1. <input type="checkbox"/> MODEL	3. <input type="checkbox"/> TWO OR MORE FAMILY (NO. OF UNITS _____)	5. <input type="checkbox"/> ATTACHED GARAGE	7. <input type="checkbox"/> OTHER _____		
2. <input type="checkbox"/> ONE FAMILY (PLAN NO. _____)	4. <input type="checkbox"/> HOTEL, MOTEL (NO. OF UNITS _____)	6. <input type="checkbox"/> DETACHED GARAGE			
<b>B. NON-RESIDENTIAL</b>					
8. <input type="checkbox"/> AMUSEMENT	11. <input type="checkbox"/> PARKING GARAGE	14. <input type="checkbox"/> OFFICE, BANK, PROFESSIONAL	17. <input type="checkbox"/> STORE, MERCANTILE		
9. <input type="checkbox"/> CHURCH, RELIGION	12. <input type="checkbox"/> SERVICE STATION	15. <input type="checkbox"/> PUBLIC UTILITY	18. <input type="checkbox"/> TANKS, TOWERS		
10. <input type="checkbox"/> INDUSTRIAL	13. <input type="checkbox"/> HOSPITAL, INSTITUTIONAL	16. <input type="checkbox"/> SCHOOL, LIBRARY, EDUCATIONAL	19. <input type="checkbox"/> OTHER _____		
NON-RESIDENTIAL - DESCRIBE IN DETAIL PROPOSED USE OF BUILDING, E.G. FOOD PROCESSING PLANT, MACHINE SHOP, LAUNDRY BUILDING AT HOSPITAL, ELEMENTARY SCHOOL, SECONDARY SCHOOL, COLLEGE, PAROCHIAL SCHOOL, PARKING GARAGE FOR DEPARTMENT STORE, RENTAL OFFICE BUILDING, OFFICE BUILDING AT INDUSTRIAL PLANT, IF USE OF EXISTING BUILDING IS BEING CHANGED, ENTER PROPOSED USE.					

**B. PRINCIPAL TYPE OF FRAME**

9. ☐ MASONRY WALL BEARING 10. ☐ WOOD FRAME 11. ☒ STRUCTURAL STEEL 12. ☐ REINFORCED CONCRETE 13. ☐ OTHER

**C. TYPE OF SEWAGE DISPOSAL**

14. ☐ PUBLIC 15. ☒ SEPTIC SYSTEM

**D. TYPE OF WATER SUPPLY**

16. ☒ PUBLIC 17. ☐ PRIVATE WELL

**E. TYPE OF MECHANICAL**

18. WILL THERE BE AIR CONDITIONING? ☐ YES ☒ NO 20. WILL THERE BE AN ELEVATOR? ☐ YES ☐ NO  
19. WHAT IS THE INPUT RATING OF THE HEATING SYSTEM IN THIS BUILDING? 850,000 BTU's 21. WILL THERE BE A FIRE SUPPRESSION SYSTEM? ☐ YES ☐ NO

**F. ELECTRICAL**

22. WHAT IS THE RATING OF THE SERVICE OR FEEDER IN AMPERES? \_\_\_\_\_  
23. WILL THERE BE A FIRE ALARM SYSTEM? ☐ YES ☒ NO

**G. NUMBER OF OFF-STREET PARKING SPACES**

24. ENCLOSED \_\_\_\_\_ 25. OUTDOORS \_\_\_\_\_

**H. DIMENSIONS**

26. NUMBER OF STORIES \_\_\_\_\_ 27. BUILDING HEIGHT \_\_\_\_\_ 28. BUILDING LENGTH \_\_\_\_\_ 29. BUILDING WIDTH \_\_\_\_\_  
30. TOTAL SQUARE FOOTAGE OF BUILDING (ALL FLOORS EXCEPT UNFINISHED BASEMENT) \_\_\_\_\_

**VI. PLAN REVIEW****A. REVIEW(S) TO BE PERFORMED - SEE SECTION B, C, D BELOW BEFORE COMPLETING THIS SECTION**

- |  |   |   |   |   |
|--|---|---|---|---|
| 1. BUILDING<br><input type="checkbox"/> PLAN SUBMITTED | 2. PLUMBING<br><input type="checkbox"/> PLANS NOT REQUIRED<br><input type="checkbox"/> PLANS REQUIRED & SUBMITTED | 3. MECHANICAL<br><input type="checkbox"/> PLANS NOT REQUIRED<br><input type="checkbox"/> PLANS REQUIRED & SUBMITTED | 4. ELECTRICAL<br><input type="checkbox"/> PLANS NOT REQUIRED<br><input type="checkbox"/> PLANS REQUIRED & SUBMITTED | 5. ENERGY<br><input type="checkbox"/> WORKSHEET SUBMITTED |
|--|---|---|---|---|

**B. PLUMBING****PLANS ARE NOT REQUIRED FOR THE FOLLOWING:**

- One or two-family dwellings containing not more than 3,500 square feet of building area.
- Alterations and repair work determined by the plumbing official to be of a minor nature.
- Assembly, business, mercantile and storage buildings with a required plumbing fixture count less than 12.
- Work completed by a governmental subdivision or state agency costing less than \$15,000.00.

**C. MECHANICAL****PLAN ARE NOT REQUIRED FOR THE FOLLOWING:**

- One and two-family dwellings when the total building heating/cooling system input rating is 375,000 BTU's or less.
- Alterations and repair work determined by the mechanical official to be of a minor nature.
- Business, mercantile, and storage buildings having HVAC equipment only, with one fire area and not more than 3,500 square feet.
- Work completed by a governmental subdivision or state agency costing less than \$15,000.00.

**D. ELECTRICAL****PLANS ARE NOT REQUIRED FOR THE FOLLOWING:**

- When the electrical system rating does not exceed 400 amps and the building is not over 3,500 square feet in area.
- Work completed by a governmental subdivision or state agency costing less than \$15,000.00.

Plans are required for all other building types and shall be prepared by or under the direct supervision of an architect or engineer, licensed pursuant to Act No. 299 or the Public Acts of 1980, as amended, and shall bear that architect's or engineer's signature and seal.

**VII. APPLICANT INFORMATION**

APPLICANT IS RESPONSIBLE FOR THE PAYMENT OF ALL FEES AND CHARGES APPLICABLE TO THIS APPLICATION AND MUST PROVIDE THE FOLLOWING INFORMATION.

PRINT NAME KERRY DUGGAN @ WIND SURF & SAIL TELEPHONE NO. 586 954 9463  
ADDRESS 22250 HALL RD CITY QUINTON STATE MI ZIP 48036  
FEDERAL I.D. NUMBER 382651895

I HEREBY CERTIFY THAT THE PROPOSED WORK IS AUTHORIZED BY THE OWNER OF RECORD AND THAT I HAVE BEEN AUTHORIZED BY THE OWNER TO MAKE THIS APPLICATION AS HIS AUTHORIZED AGENT, AND WE AGREE TO CONFORM TO ALL APPLICABLE LAWS OF THE STATE OF MICHIGAN. ALL INFORMATION SUBMITTED ON THIS APPLICATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

SECTION 23a OF THE STATE CONSTRUCTION CODE ACT OF 1972, 1972 PA 230, MCL 125.15239, PROHIBITS A PERSON FROM CONSPIRING TO CIRCUMVENT THE LICENSING REQUIREMENTS OF THIS STATE RELATING TO PERSONS WHO ARE TO PERFORM WORK ON A RESIDENTIAL BUILDING OR A RESIDENTIAL STRUCTURE. VIOLATORS OF SECTION 23a ARE SUBJECT TO CIVIL FINES.



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## POOL INFORMATION FORM

### Private Swimming Pool



Job Address:

Homeowner:

Contractor:

STOLL, JOHN & LAMBEREY  
1431 WASHINGTON RD  
WIND SURF & JAIL POOLS

### POOL CONSTRUCTION

ABOVE-GROUND ☐

IN-GROUND ☒

Manufacturer

Model Number

INTERNATIONAL

Gunitite ☐

Vinyl Liner ☒

Fiberglass ☐

Other

Size: Diameter

800

and/or

Length

20

Width

48

Water Depth:

Shallow End

3

Deep End

8

Diving Board: Yes ☒ No ☐

Height

8

Surface Cleaning:

Skimmers ☒

Gutters ☐

Please note: One skimmer is required for each 1,000 square feet of surface area

### WATER TREATMENT

Pool filter meets the requirement of the National Sanitation Foundation Standard 50 entitled "Circulation System Components for Swimming Pools, Spas, or Hot Tubs." Yes ☒ No ☐

Filter Capacity-Gallons Per Hour

45

Pool Capacity-Total Gallons

40,000

Time it takes for one water turnover:

10

Hours

The pool owner has been or will be, on completion, instructed in the care and maintenance of the pool, including water treatment: Yes ☒ No ☐

### POOL ENCLOSURE AND ENTRAPMENT PROTECTION

Pool enclosure will be provided by:

Pool Contractor: ☐

Homeowner: ☒

Entrapment protection will be provided by:

Pool Contractor: ☒

Homeowner: ☐

I understand that necessary safety precautions must be met during construction and that the pool enclosure and entrapment protection requirements of the 2015 Michigan Residential Code must be completed prior to filling the pool with water.

P259976

GRETCHEN WHITMER  
Governor

**Michigan Department of Licensing and Regulatory Affairs**  
**Bureau of Construction Codes**  
**M&A Individual License**

**Classifications:**  
**Swimming Pools (S)**

KERRY DUGGAN  
DBA - WIND-SURF & SAIL POOL SERVICE  
22250 HALL RD  
CLINTON TOWNSHIP, MI 48036

MUST BE DISPLAYED IN A CONSPICUOUS PLACE

**License No.**  
**2103065994**

**Expiration Date:**  
**05/31/2023**

This document is duly issued  
under the laws of the State of  
Michigan



**MICHIGAN**  
IDENTIFICATION CARD



*Kerry D. Duggan*

D 250 465 135 012  
DOB 01-04-1950

KERRY DAVID DUGGAN  
21530 ARMADA CENTER RD  
ARMADA, MI 48005-2525

Sex: M Wgt 175 Hgt 510

ISS 04-13-2017  
EXP 01-04-2021

010450

Eyes GRN



DD:0074436162170

Rev 01-21-2011



WINDS-1

OP ID: AS

DATE (MM/DD/YYYY)

06/03/2020

## CERTIFICATE OF LIABILITY INSURANCE

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER  
Szura Insurance Services  
109 E. Fourth St.  
Rochester, MI 48307-2021  
Mathew Hailperin

248-651-4487

CONTACT NAME: Mathew Hailperin

PHONE  
(A/C, No, Ext): 248-651-4487FAX  
(A/C, No): 248-651-3751E-MAIL  
ADDRESS: mhailperin@szuraagency.com

INSURER(S) AFFORDING COVERAGE

NAIC #

INSURER A: EMC Insurance Companies

21415

INSURED  
Wind, Surf & Sail Pools, Inc  
Kathy & Kerry Duggan  
22250 Hall Rd  
Clinton Twp, MI 48036

INSURER B:

INSURER C:

INSURER D:

INSURER E:

INSURER F:

## COVERAGES

## CERTIFICATE NUMBER:

## REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR		5D8-91-91-21	06/07/2020	06/07/2021	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COM/OP AGG \$ 2,000,000 OTHER: \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY		5E8-91-91-21	06/07/2020	06/07/2021	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ OTHER: \$
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED \$ RETENTION \$					EACH OCCURRENCE \$ AGGREGATE \$ OTHER: \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y/N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	5H8-91-91-21	06/07/2020	06/07/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 500,000 E.L. DISEASE - EA EMPLOYEE \$ 500,000 E.L. DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

## CERTIFICATE HOLDER

## CANCELLATION

INFOR-2

## Information Only

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE  
Mathew Hailperin



# PERMIT APPLICATION

**CUSTOMER INFORMATION:** STOLL, JOHN & KIMBERLY – 1431 Washington Rd – Rochester Hills – Oakland County – (24) 990-8890

**LEGAL DESCRIPTION:** Parcel No. 70-15-01-201-020, T3N., R11E., Section 1, City of Rochester Hills – Oakland County

**CONTRACTOR INFORMATION:** WIND, SURF & SAIL POOLS – 22250 HALL ROAD- CLINTON TWP - LICENSE NO. 2103065994 - (586) 954-9463 – MACOMB COUNTY

**ELECTRICAL:** Executive Electric

**HEATING:** RJP Mechanical

**FENCE:** Homeowner Choice

**PLUMBING:**

**BUILDING:** WIND, SURF & SAIL POOLS **MISS DIG No: A01531151-00A**

**POOL DESCRIPTION:** 20'x40' Freeform Rectangular - INGROUND STEEL WALL/VINYL LINER SWIMMING POOL – Radius Corners – SS In Pool Ladder – 3' + CONCRETE SKIRTING - VERMICULITE FLOOR – Non Diving - WATER DEPTH 3' – 8' Gradual SLOPE – Cantilever COPING – (2) 500 Watt Lights – Aqua Rite 940 Salt Generator – Cantilever Deck – Special Sunledge/Bench – Steel Steps

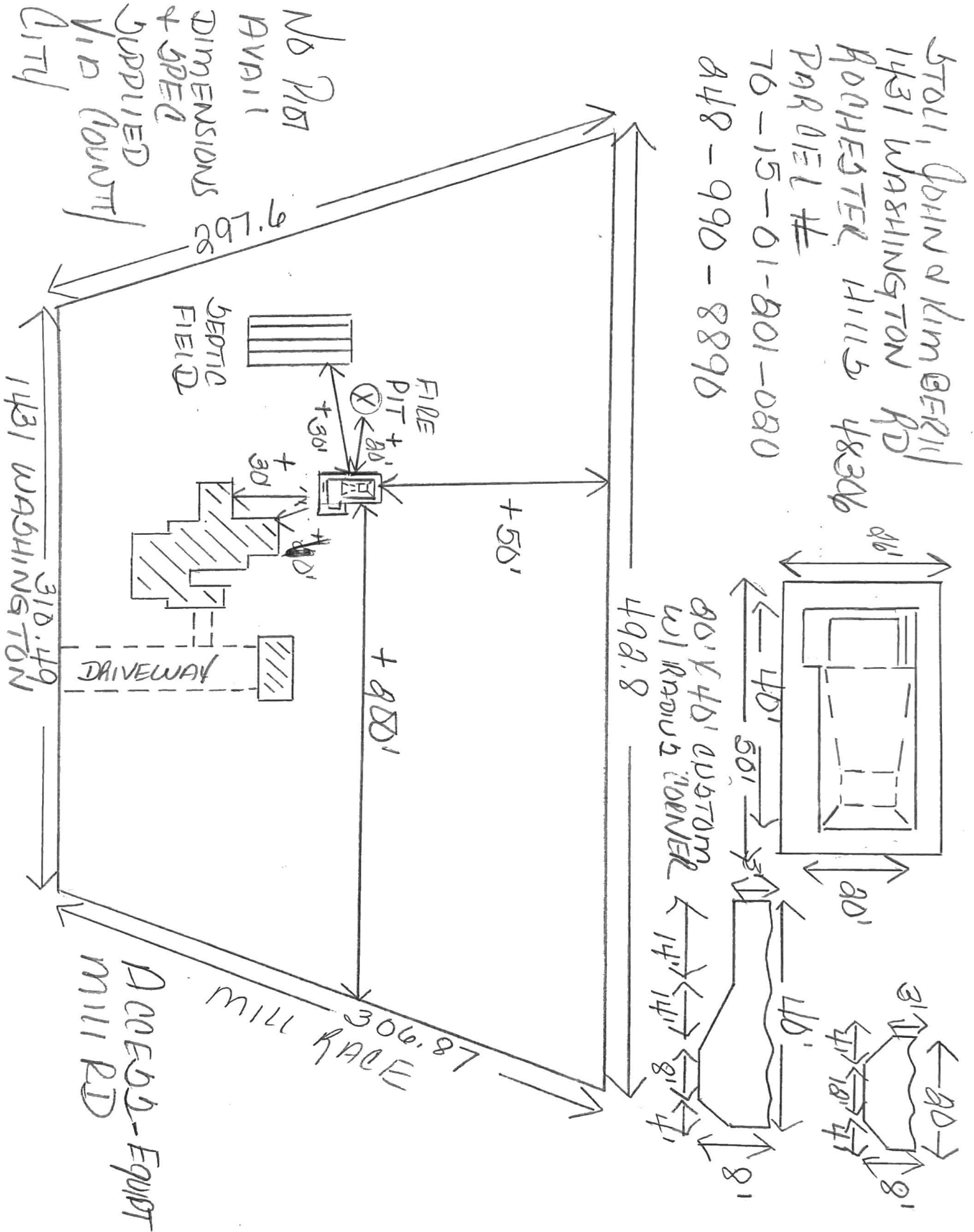
**FILTER DESCRIPTION:** S270T Sand Filter W/Zeobrite – 250,000 BTU Natural Gas Universal Heater w/Electronic Ignition – 2.0 HP Single Speed Max Flo Pump & Motor – Salt/Chlorine Sanitizer – Leveled & Installed on Base – Plumbing – 1-1/2" - 2" Thru Out System - PVC - Floation Rate of 55/65 GPM – Wiring 220 W/Timer – (2) 500 Watt Light – Junction Box – Zeo Brite –

**EQUIPMENT DESCRIPTION:** (1) Filter Tank (1) Gas Heater (1) Pump/Motor (1) Stainless Steel In Pool Ladder (1) Stainless Steel Grab Rail (1) Step Insert (0) Recessed Ladder (2) Light (2) Niche (0) LED Light (0) Slide (?) 8' Diving Board (0) Splash Jump Rock/Waterfall (0) Waterfall – Deckside (0) Aqua Garden (0) 24" Powerfall (0) Deck Water Jets (0) Fiber Optics Laminar (1) Equipment Controller (2) MainDrain (2) Skimmer (4) Water Returns (0) Chlorinator (0) Claritech (1) Salt Generator (0) Fiberglass Buddy Bench/ Seat (0) Volleyball Cups (0) Basketball Cups (0) Inground Pre Plumbed Scaloped Spa w/Light (0) Jets (0) LED Spa Light (0) Portable Freestanding Spa (0) Auto Cleaner (0) Safety Cover (2) Steel Bench (1) Sunbench (1) Steel Step (0) Heat Pump

**CROSSROADS/DIRECTIONS:** North of 25 Mile/Runyon – W of Mt Vernon – No Plot Available – Dimensions/Specs Supplied by City/County Records  
Would like Diving if possible – TBD upon excavation

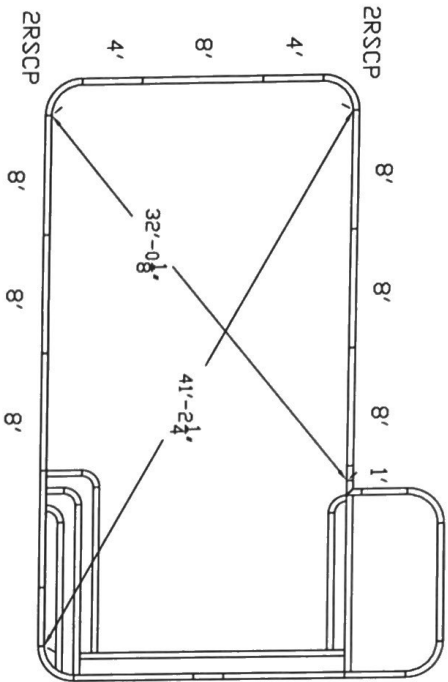
PLEASE SEE ATTACHED PLOT PLAN OR LAYOUT

STOLL, John & Kim BERILL  
 1431 WASHINGTON RD  
 ROCHESTER HILLS 48306  
 PARCEL #  
 76-15-01-001-000  
 848-990-8896



No Plot  
 Avail  
 DIMENSIONS  
 + SPEC  
 SUPPLIED  
 VIO COUNT  
 CITY

INTERPOOL	
14' X 26' STEP/BENCH/LEDGE	
DATE: 07/13/20	SCALE: NTS
CAD BY: P.T.	ACADREF: DPSTBL-1426



26' OPEN POUR  
STEP/BENCH/  
LEDGE

# BILL OF MATERIALS

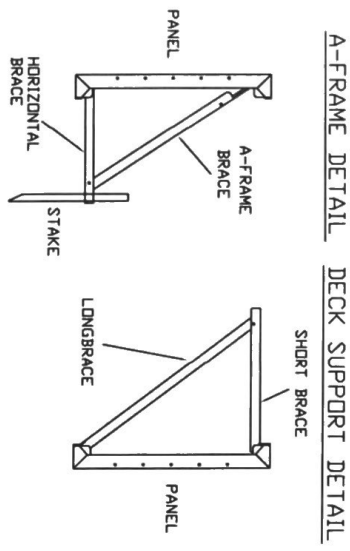
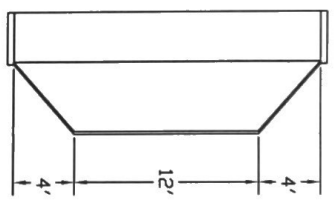
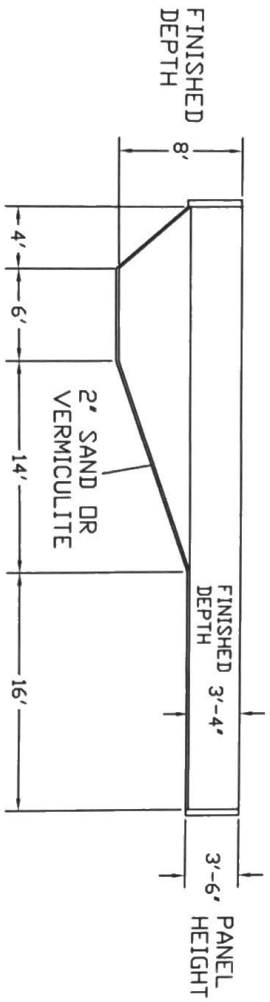
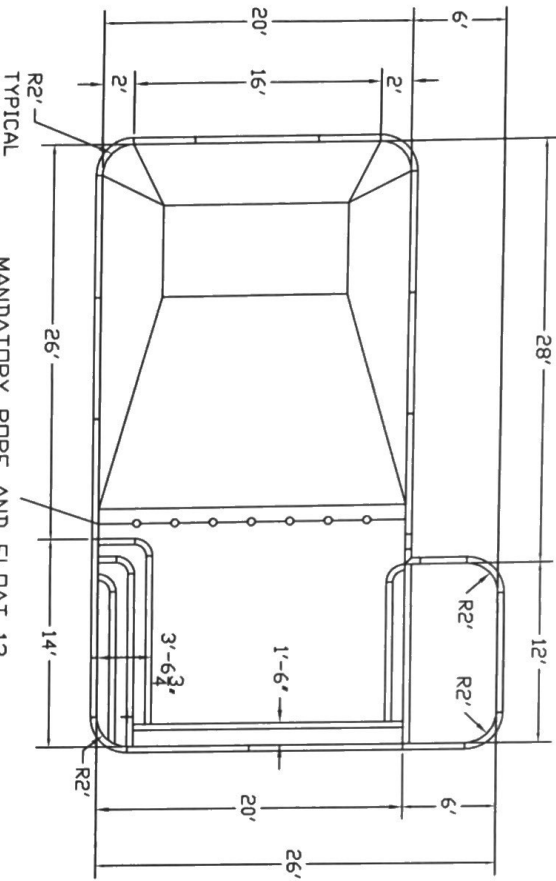
QTY	DESCRIPTION
2	2' RADIUS CORNER PANEL (2RSCP)
1	1' STRAIGHT PANEL
2	4' STRAIGHT PANEL
7	8' STRAIGHT PANEL
1	26' OPEN POUR STEP/BENCH/LEDGE (REFER TO DPSTBL-1426.DWG.)

INTERPOOL

20' X 40' RECTANGLE

DATE: 07/13/20 SCALE: NTS

CAD BY: P.T. ACADREF: RT2R-2040-C2



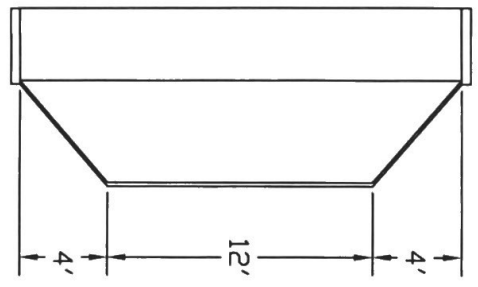
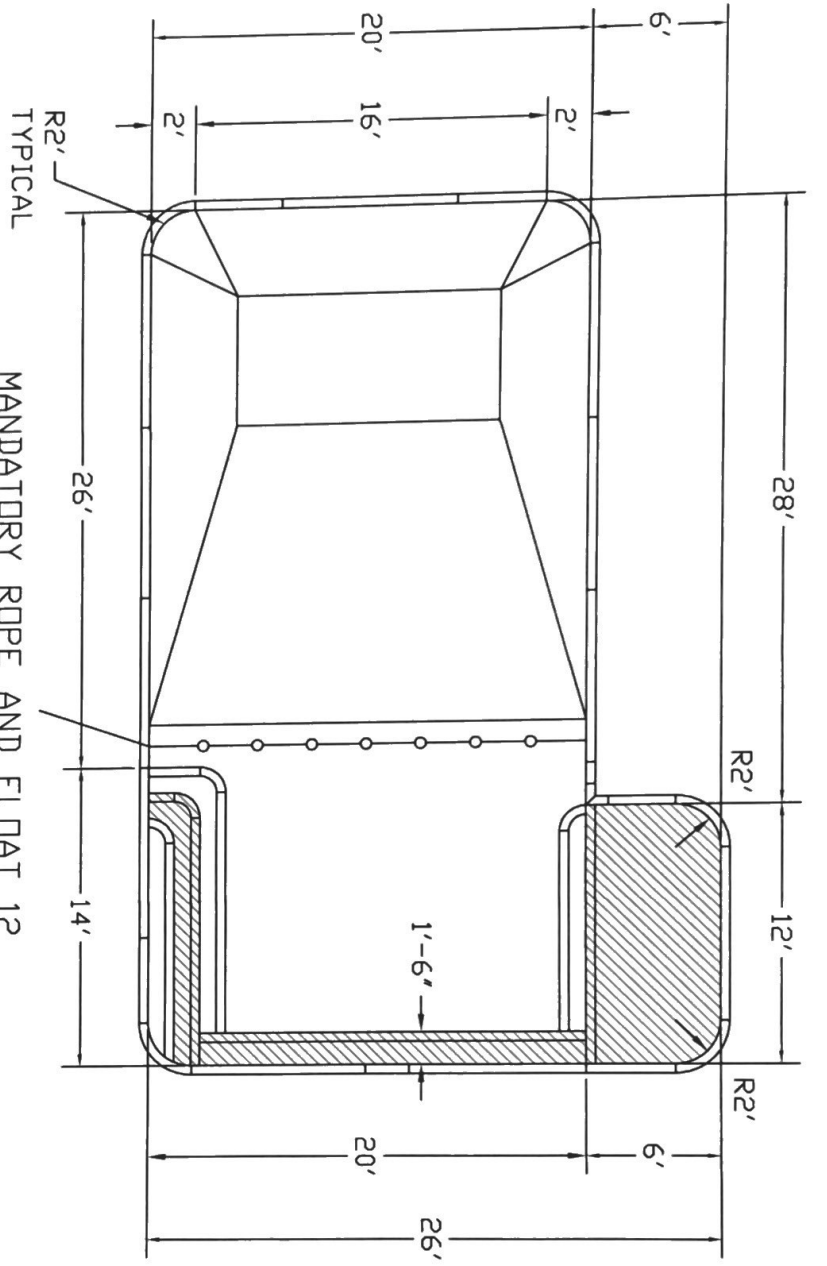
- NOTES:**
- 1) DEPTH AND SHAPE OF POOL MEET MINIMUM STANDARDS OF THE INTERNATIONAL SWIMMING POOL AND SPA CODE 2018 FOR RESIDENTIAL IN-GROUND SWIMMING POOLS.
  - 2) A MEANS OF EGRESS FOR BOTH THE DEEP END AND THE SHALLOW END OF THE POOL MUST BE PROVIDED IN ACCORDANCE WITH THE 2018 INTERNATIONAL SWIMMING POOL AND SPA CODE SECTION 809.
  - 3) EQUIPMENTAL BONDING MUST BE PROVIDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE NFPA 70.
  - 4) ALL A-FRAME BRACES ARE TO BE MOUNDED WITH A MINIMUM OF ONE CUBIC FOOT OF CONCRETE OR A SIX-INCH THICK CONTINUOUS POURED CONCRETE PERIMETER COLLAR.
  - 5) "NO DIVING" LABELS ARE TO BE INSTALLED AROUND THE PERIMETER OF POOL.
  - 6) SUCTION ENTRAPMENT AVOIDANCE IS TO BE INSTALLED IN ACCORDANCE WITH ANSI/APSP/ICC-7.
  - 7) ALL WORK NOT SPECIFICALLY SHOWN IS TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL SWIMMING POOL AND SPA CODE AND ALL OTHER APPLICABLE CODES.
  - 8) THE POOL DECK/COPING IS WITHIN 12 INCHES OF THE DESIGN WATERLINE WHICH SATISFIES THE REQUIREMENT FOR HANDHOLDS PER THE 2018 ISPS SECTION 3231 et al.

INTERNATIONAL SWIMMING POOLS ARE DANGEROUS WHEN USED IMPROPERLY. NEVER DIVE IN THE SHALLOW END OF ANY POOL. CONSULT WITH THE DIVING BOARD AND SLIDE MANUFACTURERS AND THE ASSOCIATION OF POOL AND SPA PROFESSIONALS (2111 EISENHOWER AVENUE ALEXANDRIA, VA 22314 (703-838-0083) PRIOR TO INSTALLING DIVING BOARDS AND/OR SLIDES ON THIS POOL TO ENSURE THE POOL MEETS THE EQUIPMENT MANUFACTURERS MINIMUM STANDARDS FOR ALLOWABLE INSTALLATION OF THEIR PRODUCTS) ON THIS POOL. INTERNATIONAL SWIMMING POOLS IS NOT RESPONSIBLE FOR THE POOL'S INTERIOR DETAIL, RATHER THE LINER MANUFACTURER MUST ENSURE THE INTERIOR MEETS A.P.S.P. AND A.N.S.I. STANDARDS. IT IS THE RESPONSIBILITY OF POOL BUILDERS, TOWN OFFICIALS AND POOL OWNERS TO FOLLOW ALL SAFETY GUIDELINES OF THE A.P.S.P., LOCAL ORDINANCES, AND EQUIPMENT MANUFACTURERS.

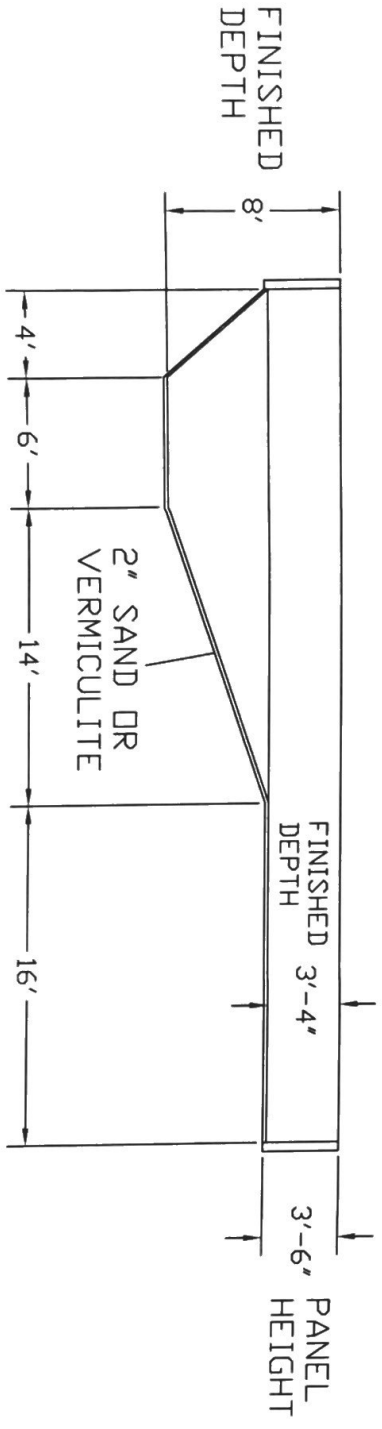
POOL PERIMETER: 127'-8 1/2"  
POOL AREA: 868 Sqft  
VOLUME: 36,800 APPROX. GAL.

INTERPOOL	
20' X 40' RECTANGLE	
DATE: 07/13/20	SCALE: NTS
CAD BY: P.T.	ACADREF: RT2R-2040-C2





MANDATORY ROPE AND FLOAT 12  
INCHES FROM SLOPE CHANGE RT2R-2040-C2



Floor plan details:

- 1 1/2 STY CRAWL**: 320 sf, 16' x 20'
- 1 1/2 STY BSMT**: 240 sf, 12' x 20'
- 2 STY BSMT**: 468 sf, 18' x 26'
- 1 STY BSMT**: 273 sf, 21' x 13'
- TDK**: 100 sf, 10' x 10'
- 1 SC**: 168 sf, 6' x 28'
- CCP**: 48 sf, 12' x 4'
- BRT**: 414 sf, 27' x 15'

ALL VINYL SIDING

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Building Department

Attn: Building Department

Dear Sir or Madam:

**RE: Permit Application for Inground Swimming Pool**

Homeowner

Mr. & Mrs. Stoll

1431 Washington Rd

Rochester hills, MI 48036

Pool Equipment to be Screened By Landscaping and will meet the necessary .65 DBA Code

No Encroachment into Easements – Minimum of 10' to Overhead Utilities

Homeowner will be responsible for maintenance required after storms and weather conditions

Dominant existing land feature will be grass

Limits of Earth Disruption -

Sequence of Earth Change –

Sincerely,

Kerry D Duggan  
President

**APPLICATION REGARDING POOL/FENCE PERMITS**

BASIC CODE - RESIDENTIAL OUTDOOR SWIMMING POOL

RE: Mr. & Mrs. Stoll

1431 Washington Rd

Rochester Hills, MI 48036

ATTN: BUILDING DEPARTMENT

#2A THE TOP OF THE BARRIER SHALL BE AT LEAST 48" ABOVE FINISHED GROUND LEVEL MEASURED ON THE SIDE OF THE BARRIER WHICH FACES AWAY FROM THE POOL. THE MAXIMUM VERTICAL CLEARANCE BETWEEN FINISHED GROUND LEVEL & BARRIER SHALL BE 2" MEASURED ON THE SIDE OF THE BARRIER WHICH FACES AWAY FROM THE POOL. WHERE THE TOP OF THE POOL STRUCTURE IS ABOVE FINISHED GROUND LEVEL, SUCH AS THE POOL STRUCTURE.

#2B OPENINGS IN BARRIER SHALL NOT ALLOW PASSAGE OF 4" DIAMETER SPHERE.

#2C SOLID BARRIERS SHALL NOT CONTAIN INDENTATIONS OR PROTRUSIONS EXCEPT FOR NORMAL CONSTRUCTION TOLERANCES & TOOLED MASONRY JOINTS.

#2D WHERE THE BARRIER IS COMPOSED OF HORIZONTAL & VERTICAL MEMBERS & THE DISTANCE BETWEEN THE TOPS OF THE HORIZONTAL MEMBERS IS LESS THAN FENCE. SPACING BETWEEN VERTICAL MEMBERS SHALL NOT EXCEED 1-3/4" IN WIDTH. DECORATIVE CUTOUTS SHALL NOT EXCEED 1-3/4" IN WIDTH. N/A

#2E WHERE THE BARRIER IS COMPOSED OF HORIZONTAL & VERTICAL MEMBERS AND THE DISTANCE BETWEEN THE TOPS OF THE HORIZONTAL MEMBERS IS 45" OR MORE, SPACING BETWEEN VERTICAL MEMEBERS SHALL NOT EXCEED 4". DECORATIVE CUTOUTS SHALL NOT EXCEED 1-3/4"

#2F N/A

#2G N/A

#2H BARRIERS OR FENCES SHALL BE LOCATED SO AS TO PROHIBIT PERMANENT STRUCTURES, EQUIPMENT OR SIMILAR OBJECTS FROM BEING USED TO CLIMB THE FENCE ENCLOSING THE POOL.

#2I N/A

#2J ACCESS GATES SHALL COMPLY WITH THE REQUIREMENTS OF ITEMS 1-7 OF SECTION 421.10.1 AND SHALL BE EQUIPPED TO ACCOMMODATE A LOCKING DEVICE. PEDESTRAIN ACCESS GATE SHALL OPEN OUTWARDS AWAY FROM THE POOL. WHERE THE RELEASE MECHANISM OF THE SELF LATCHING DEVICE IS LOCATED LESS THAN 54" FROM THE BOTTOM OF THE GATE (A) THE RELEASE MECHANISM SHALL BE LOCATED ON THE POOL SIDE OF THE GATE AT LEAST 3" BELOW THE TOP OF THE GATE (B) THE GATE AND BARRIER

SHALL NOT HAVE AN OPENING GREATER THAN ½" WITHIN 18" OF THE RELEASE MECHANISM.

#2K WHERE THE WALL OF THE DWELLING SERVES AS PART OF THE BARRIER THE FOLLOWING WILL APPLY:

The doors with direct access to the pool through that wall shall be equipped with an alarm which produces an audible warning when the door & its screen, if present are opened.

The alarm shall sound continuously for a minimum of 30 seconds immediately after the door is opened. The alarm shall have a minimum sound pressure rating of 85 DBA at 10' and the sound of the alarm shall be distinctive from other household sounds such as smoke detectors, alarm, telephones and door bells. The alarm shall automatically reset under all conditions. The alarm shall be equipped with manual means such as touchpad or switches to deactivate temporarily the alarm for a single opening from either direction. Such deactivation shall last for not more than 15 seconds. The deactivation touchpads or switches shall be located at least 54" above the threshold of the door.

#2L N/A

#3 THE ENTIRE YARD, OR THE ENTIRE POOL AREA SHALL BE COMPLETELY ENCLOSED BY NOT LESS THAN A 4' HIGH FENCE, MEASURED VERTICALLY ABOVE THE UNDERLYING GRADE AS DESCRIBED IN ITEM 2 ABOVE. ALL FENCING ENCLOSING POOL SHALL BE PERMANENTLY CONSTRUCTED AND SHALL BE SO DESIGNED AS TO AFFORD COMPLETE PROTECTION TO SMALL CHILDREN (not climbable) IN ADDITION POOL ENCLOSING FENCE SHALL BE CONSTRUCTED TO SAFELY WITHSTAND A 200 LB HORIZONTAL CONCENTRATED LOAD ON ANY ONE-SQUARE FOOT AREA. THE ENTIRE POOL ENCLOSURE SHALL BE PERPETUALLY MAINTAINED IN PROPER WORKING ORDER AS HEREIN DESCRIBED.

TO BE SUBMITTED IN CONJUNCTION WITH POOL/FENCE PERMIT APPLICATION

BUILDING DEPARTMENT

Attn: Building Department

RE: ANSI/APSP-2013  
MRC2015  
AG106.3

Mr. & Mrs. Stoll  
1431 Washington Rd  
Rochester Hills, MI 48036

This letter is an acknowledgement that our company (Wind, Surf & Sail Pools, Inc.) is and will be enforcing and following the necessary requirements for the new implemented code, commonly known as MRC2015 Suction Outlets shall be designed to produce circulation throughout the pool or spa. Single outlet systems, such as automatic vacuum cleaner systems, or their multiple suction outlets whether isolated by valves or otherwise shall be protected against user entrapment.

Please attach this format to the above mentioned address for approval with the Swimming Pool Permit.

Sincerely

Wind Surf and Sail Pools

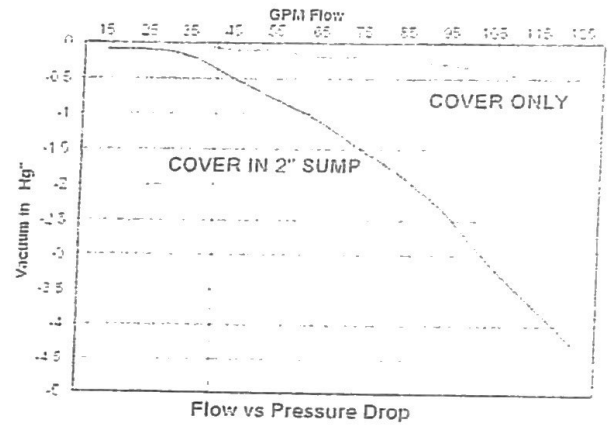
Kerry D. Duggan

◦ RECOMMENDED SYSTEM SPECIFICATIONS:

ACCEPTABLE PIPE SIZE FOR MAXIMUM  
RECOMMENDED  
SYSTEM FLOW RATE PER APSP-7  
(6 FT/SEC IN THE BRANCH LINE)

Pipe Size [mm]	Flow rate GPM [Liter/Min]	Pipe Size [mm]	Flow rate GPM [Liter/Min]
1 1/2"	40	2 1/2"	90
[50]	[150]	[75]	[340]
2"	63	3"	138
[63]	[240]	[90]	[522]

Chart 1



WG1048E Suction Outlet Covers are rated for Floor Only at 125 GPM

FIG 1

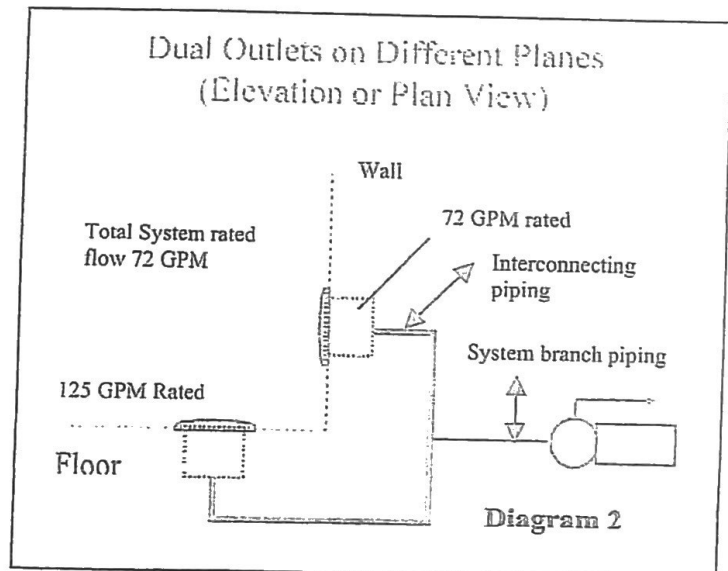
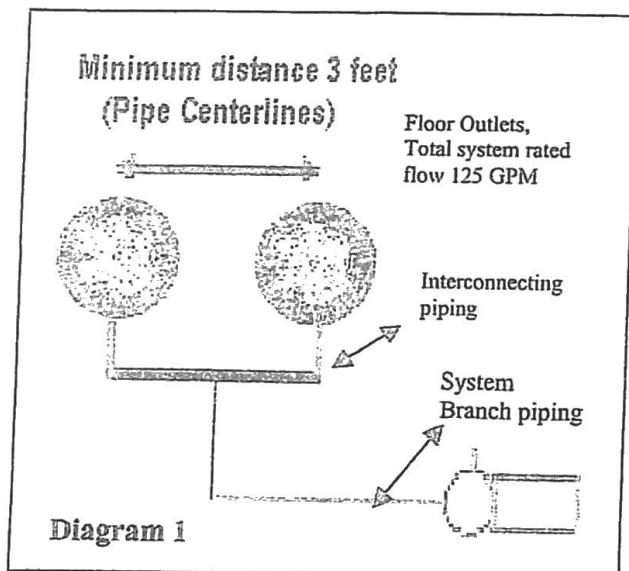
Note: 1" Hg = 1.13 Ft of Head

WG1048EW Suction Outlet Covers are rated for Wall or Floor at 72 GPM

In the event of one suction outlet being blocked, the remaining suction outlets serving that system shall have a flow rating capable of the full flow of the pump(s) for the specific suction system.

**Example:** In the System shown in **Diagram 1**, two (2) "Floor Only" suction outlet covers are selected and mounted. These covers are individually rated for 125 GPM. For a desired flow rate through the pump of 100 GPM, a minimum pipe size from the **Chart 1** is selected at 3". At the desired flow of 100 GPM one cover could be partially blocked and the other suction outlet flow would be below the rated 125 GPM of the "Floor" mounted suction outlet cover. Since there are two outlets flowing in normal operation, and the allowable velocity in the interconnecting piping is only 3 ft/sec, the same pipe size is required in the interconnecting piping.

**Example:** In the System shown in **Diagram 2**, one (1) "Floor Only" suction outlet cover, rated at 125 GPM, and one (1) "Wall or Floor" suction outlet cover, rated at 72 GPM are selected and mounted. For a desired flow rate through the pump of 50 GPM, a minimum pipe size from the **Chart 1** is selected at 2". At the desired flow of 50 GPM either cover could be totally blocked and the other suction outlet flow would be below the rated 72 GPM of the wall mounted suction outlet cover. Note: Flow may be limited by entrapping force in dual suction systems.





## VIRGINIA GRAEME BAKER POOL AND SPA SAFETY ACT

The Virginia Graeme Baker Pool and Spa Safety Act raises certain new requirements on owners and operators of swimming pools and spas.

Pools or spas constructed on or after December 19, 2008, shall utilize:

- (A) A multiple main drain system without isolation capability with suction outlet covers that meet ANSI/APSP-16 Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs and either:
  - (i) A safety vacuum release system (SVRS) meeting ASME/ANSI A112.19.17 Manufactured Safety Vacuum Release Systems (SVRS) for Residential and Commercial Swimming Pool, Spa, Hot Tub, and Wading Pool Suction Systems and/or ASTM F2387 Standard Specification for Manufactured Safety Vacuum Release Systems (SVRS) for Swimming Pools, Spas and Hot Tubs or
  - (ii) A properly designed and tested suction-limiting vent system or
  - (iii) An automatic pump shut-off system.

Pools and spas constructed prior to December 19, 2008, with a single submerged suction outlet shall use a suction outlet cover that meets ANSI/APSP-16 and either:

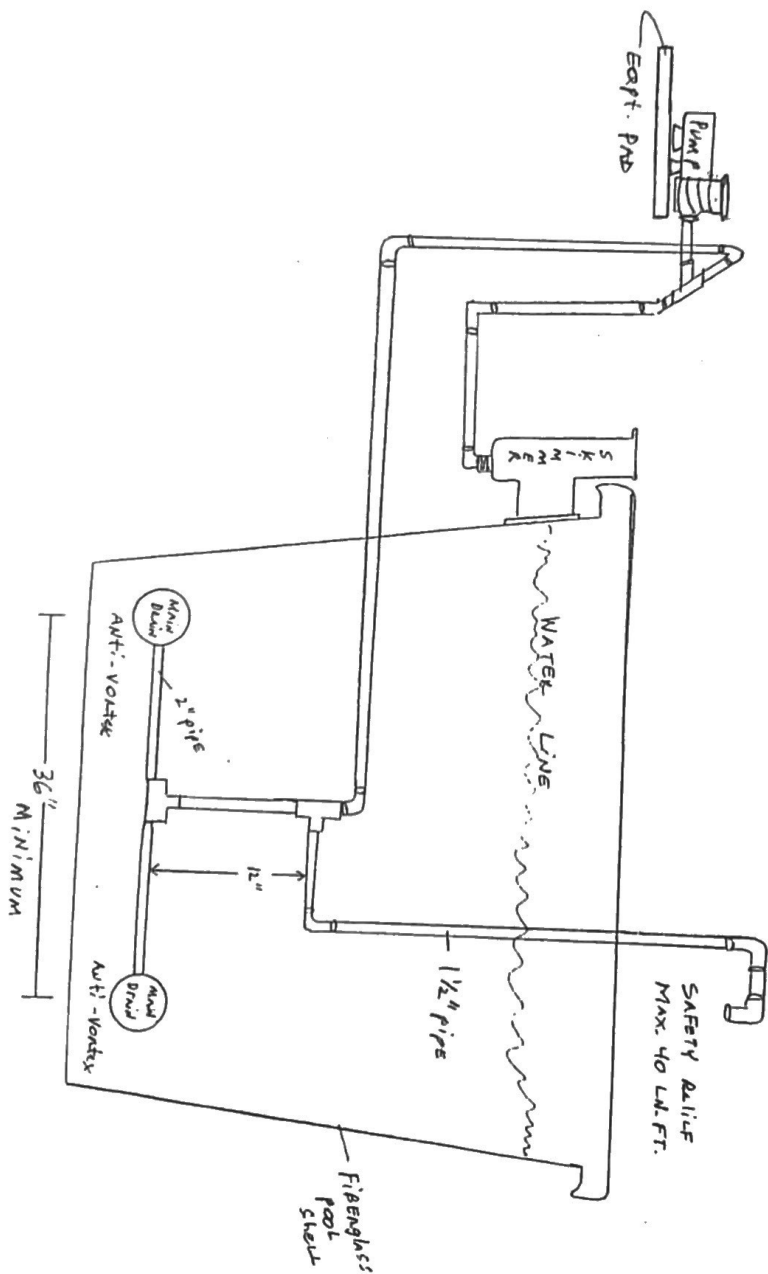
- (A) A safety vacuum release system (SVRS) meeting ASME/ANSI A112.19.17 and/or ASTM F2387, or
- (B) A properly designed and tested suction-limiting vent system, or
- (C) An automatic pump shut-off system, or
- (D) Disabled submerged outlets, or
- (E) Suction outlets shall be reconfigured into return inlets.

For more information about the Virginia Graeme Baker Pool and Spa Safety Act, contact the Consumer Product Safety Commission at (301) 504-7908 or visit [www.cpsc.gov](http://www.cpsc.gov).

**NOTE:** Always turn off all power to the pool pump before installing the cover or working on any suction outlet.

(ICC) International Code Council  
 (SNS) Safety Vacuum Relief System  
 (Mican) 1 mil/100th of 1 meter

ENTRAPMENT PROTECTION



**1431 WASHINGTON RD** ROCHESTER HILLS, MI 48306-4564 (Property Address)

Parcel Number: 70-15-01-201-020



Item 1 of 8

6 Images / 2 Sketches

**Property Owner:** STOLL, JOHN

**Summary Information**

**> Residential Building Summary**

- Year Built: 1901
- Full Baths: 3
- Sq. Feet: 3,463
- Bedrooms: 6
- Half Baths: 1
- Acres: 2.660

**> Assessed Value: \$293,250 | Taxable Value: \$200,090**

**> Property Tax information found**

**> 15 Building Department records found**

## Important Message

The City of Rochester Hills does not guarantee that information on this web site is accurate, timely or complete, although the City strives to meet those criteria. Please contact the following departments if you believe there are errors in the data; Property Taxes, Special Assessments, and Miscellaneous Receivables - Treasury Department 248-656-4675, Assessments - Assessing Department 248-656-4605, Permits - Building Department 248-656-4615. Any errors or omissions will not negate the taxes or special assessments that are due and payable. The official records are at the Rochester Hills City Hall for current year tax collections only. Payments made for delinquent taxes are not reflected on this website. To determine if a payment has been made after the current collection period, contact the Oakland County Treasurer at 248-858-0611 or click [here](#) for the Access Oakland web site.

**All Special Assessment/Miscellaneous Receivables payments must be on separate checks.** Please call 248-656-4688 to check for **water and/or sewer assessments**. Please call GFL at 844-464-3587 to check for outstanding **Solid Waste account balances**. Please view the Winter tax bill for any tax assigned **road paving installments**. If you need to inquire about **false alarms charges** that may occur during the current month that have not yet been reported to or billed by the City Treasurer, you may contact the Sheriff's office at 248-537-3530. You may inquire about **weed control charges** that may occur during the current month that have not yet been reported to or billed by the City Treasurer, by contacting [whiteb@rochesterhills.org](mailto:whiteb@rochesterhills.org). Our weed cutting season runs May 1 - Nov 1.

## Owner and Taxpayer Information

**Owner**

STOLL, JOHN  
STOLL, KIMBERLY  
1431 WASHINGTON RD  
ROCHESTER HILLS, MI 48306-4564

**Taxpayer**

SEE OWNER INFORMATION

## General Information for Tax Year 2020

<b>Property Class</b>	401 RESIDENTIAL	<b>Unit</b>	70 CITY OF ROCHESTER HILLS
<b>School District</b>	ROCHESTER COMMUNITY SCH DIST	<b>Assessed Value</b>	\$293,250
<b>MAP #</b>	2 HOUSES ON PARCEL	<b>Taxable Value</b>	\$200,090
<b>USER NUM IDX</b>	0	<b>State Equalized Value</b>	\$293,250
<b>USER ALPHA 1</b>		<b>Date of Last Name Change</b>	10/27/2014
<b>USER ALPHA 3</b>	100	<b>Notes</b>	Not Available
<b>Historical District</b>	No	<b>Census Block Group</b>	No Data to Display
<b>USER ALPHA 2</b>		<b>Exemption</b>	No Data to Display

## Principal Residence Exemption Information

**Homestead Date** 10/24/2014

Principal Residence Exemption	June 1st	Final
2020	100.0000 %	100.0000 %

## Previous Year Information

Year	MBOR Assessed	Final SEV	Final Taxable
2019	\$251,810	\$251,810	\$196,360
2018	\$244,530	\$244,530	\$191,760
2017	\$230,810	\$230,810	\$187,820
2016	\$212,240	\$212,240	\$186,150
2015	\$185,600	\$185,600	\$185,600
2014	\$170,270	\$170,270	\$157,130
2013	\$162,740	\$162,740	\$154,660

CPP	48 sq ft	Foundation	Standard
-----	----------	------------	----------

#### Deck Information

Treated Wood	100 sq ft
--------------	-----------

#### Building Information - 756 sq ft COLONIAL (Residential)

##### General

Floor Area	756 sq ft	Estimated TCV	Not Available
Garage Area	612 sq ft	Basement Area	0 sq ft
Foundation Size	72 sq ft		
Year Built	1900	Year Remodeled	Not Available
Occupancy	Single Family	Class	C +10
Effective Age	16 yrs	Tri-Level	No
Percent Complete	100%	Heat	Forced Air w/ Ducts
AC w/Separate Ducts	No	Wood Stove Add-on	No
Basement Rooms	0	Water	No Data to Display
1st Floor Rooms	4	Sewer	No Data to Display
2nd Floor Rooms	0	Style	COLONIAL
Bedrooms	2		

##### Area Detail - Basic Building Areas

Height	Foundation	Exterior	Area	Heated
2 Story	Slab	Siding	72 sq ft	2 Story

##### Area Detail - Overhangs

Area	Story Height	Exterior	Included in Size for Rates
612 sq ft	1 Story	Siding	0

##### Exterior Information

Brick Veneer	0 sq ft	Stone Veneer	0 sq ft
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##### Basement Finish

Recreation	0 sq ft	Recreation % Good	0%
Living Area	0 sq ft	Living Area % Good	0%
Walk Out Doors	0	No Concrete Floor Area	0 sq ft

##### Plumbing Information

3 Fixture Bath	1	Vent Fan	1
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##### Garage Information

Area	612 sq ft	Exterior	Siding
Foundation	42 Inch	Common Wall	1 Wall
Year Built	1900	Finished	Yes
Auto Doors	2	Mech Doors	0

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**Lot Dimensions/Comments** POND  
No Data to Display

**Neighborhood Enterprise Zone** No

Lot(s) Frontage Depth  
No lots found.

**Total Frontage: 0.00 ft**

**Average Depth: 0.00 ft**

### Legal Description

T3N, R11E, SEC 1 PART OF N 1/2 OF SEC BEG AT PT DIST S 89-50-16 E 2678.93 FT & S 00-16-42 E 1352.28 FT & S 26-46-46 W 593.67 FT & S 42-44-17 E 381.55 FT & S 29-28-20 E 490 FT FROM NW SEC COR, TH S 29-28-20 E 306.87 FT, TH S 43-33-18 W 310.49 FT, TH N 64-32-08 W 297.60 FT, TH N 42-19-13 E 492.60 FT TO BEG 2.66 A6-19-91 FR 100-020

### Land Division Act Information

<b>Date of Last Split/Combine</b>	No Data to Display	<b>Number of Splits Left</b>	Not Available
<b>Date Form Filed</b>	No Data to Display	<b>Unallocated Div.s of Parent</b>	Not Available
<b>Date Created</b>	No Data to Display	<b>Unallocated Div.s Transferred</b>	Not Available
<b>Acreage of Parent</b>	0.00	<b>Rights Were Transferred</b>	No
<b>Split Number</b>	0	<b>Courtesy Split</b>	No
<b>Parent Parcel</b>	No Data to Display		

### Sale History

Sale Date	Sale Price	Instrument	Grantor	Grantee	Terms of Sale	Liber/Page
10/24/2014	\$525,000.00	WD	MCCONACHIE, JACQUELYN	STOLL, JOHN	ARMS LENGTH EQUAL	47632.862
03/05/2010	\$209,900.00	WD	FEDERAL HOME LOAN MTG CORP	MCCONACHIE, JACQUELYN & HAFNER, DAV	19-INVALID BANK/MTG	41920.588
10/28/2009	\$371,671.00	WD	COOPER, AMY J	FEDERAL HOME LOAN MTG CORP	24 - SHERRIFF'S SALE	41290.524
05/23/2005	\$470,000.00	PTA	ODG CORPORATION	COOPER AMY J & KYLE A	ARMS LENGTH EQUAL	35694/430
05/23/2005	\$1.00	WD	CHAPMAN CARROL B & MARY G	ODG CORPORATION	01 - \$1.00 DEED	35694/427
06/15/2004	\$1.00	QCD	O G D CORP	CHAPMAN JR CARROL B & MARY G	07 - NOT REPRES	33648/701

### Building Information - 2707 sq ft COLONIAL (Residential)

#### General

<b>Floor Area</b>	2,707 sq ft	<b>Estimated TCV</b>	Not Available
<b>Garage Area</b>	0 sq ft	<b>Basement Area</b>	981 sq ft
<b>Foundation Size</b>	1,749 sq ft		
<b>Year Built</b>	1901	<b>Year Remodeled</b>	Not Available
<b>Occupancy</b>	Single Family	<b>Class</b>	BC
<b>Effective Age</b>	13 yrs	<b>Tri-Level</b>	No
<b>Percent Complete</b>	0%	<b>Heat</b>	Forced Hot Water
<b>AC w/Separate Ducts</b>	No	<b>Wood Stove Add-on</b>	No
<b>Basement Rooms</b>	4	<b>Water</b>	No Data to Display
<b>1st Floor Rooms</b>	4	<b>Sewer</b>	No Data to Display
<b>2nd Floor Rooms</b>	4	<b>Style</b>	COLONIAL
<b>Bedrooms</b>	4		

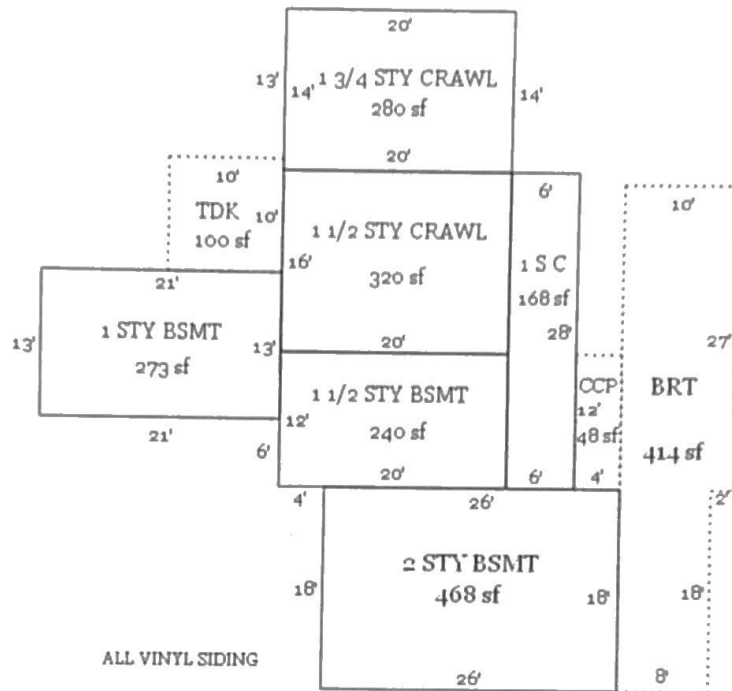
#### Area Detail - Basic Building Areas

Height	Foundation	Exterior	Area	Heated
2 Story	Basement	Siding	468 sq ft	2 Story
1.5 Story	Basement	Siding	240 sq ft	1.5 Story
1.5 Story	Crawl Space	Siding	320 sq ft	1.5 Story
1.75 Story	Crawl Space	Siding	280 sq ft	1.75 Story
1 Story	Crawl Space	Siding	168 sq ft	1 Story
1 Story	Basement	Siding	273 sq ft	1 Story

#### Exterior Information

Block Veneer 0 sq ft Stone Veneer 0 sq ft

# Image/Sketch for Parcel: 70-15-01-201-020

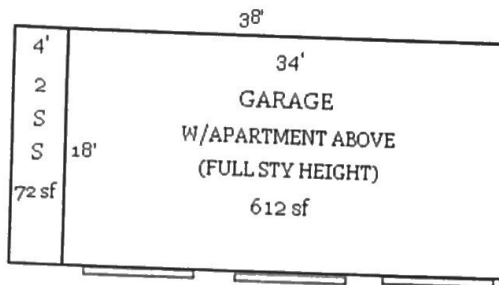


Sketch by Apex Medina™

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**Image/Sketch for Parcel: 70-15-01-201-020**



ALL WOOD SIDING

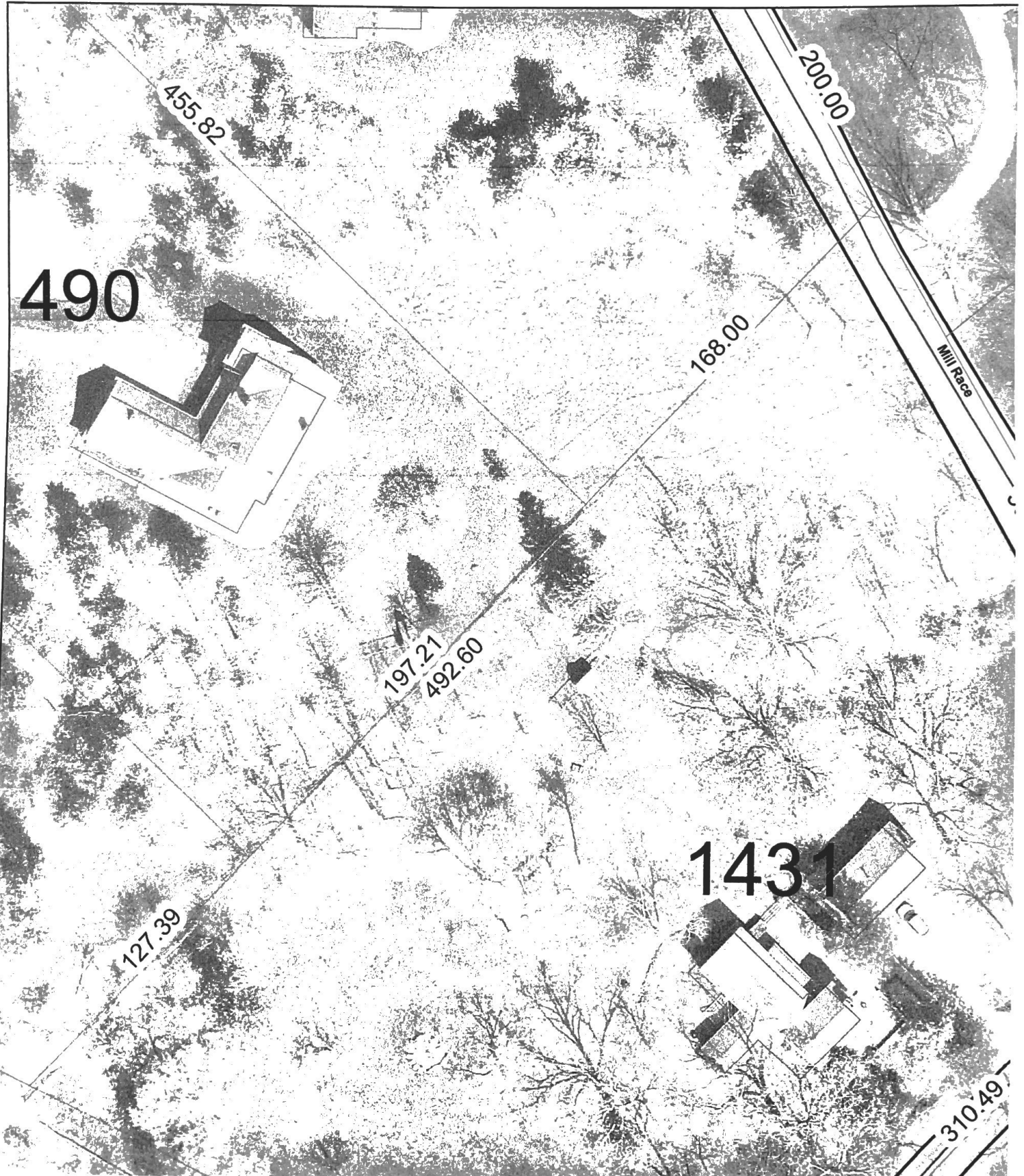
Sketch by Apex Medina™

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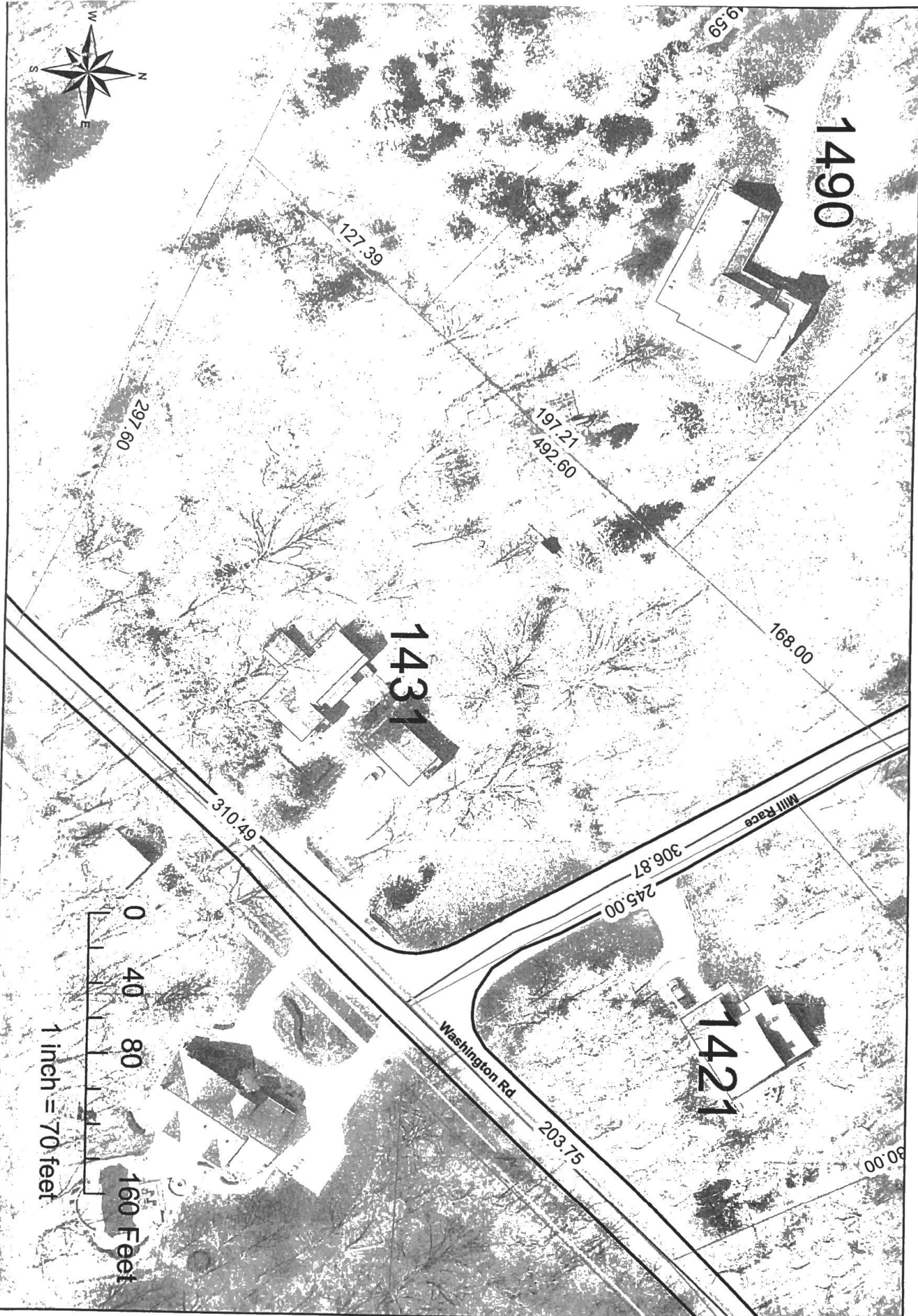
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# 1431 Washington Rd



1431 Washington Rd





## Stoll septic location

Kimberly Stoll <[kimberly.stoll@gmail.com](mailto:kimberly.stoll@gmail.com)>

Tue 6/23/2020 12:04 PM

To: Kathy Duggan <[kathy@windsurfandsail.com](mailto:kathy@windsurfandsail.com)>

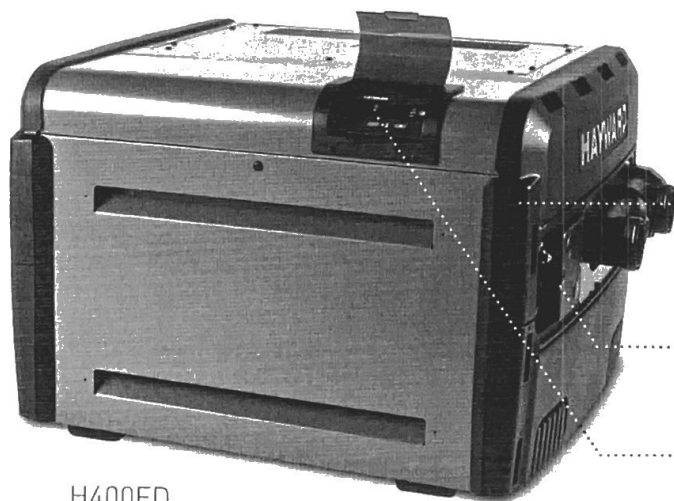
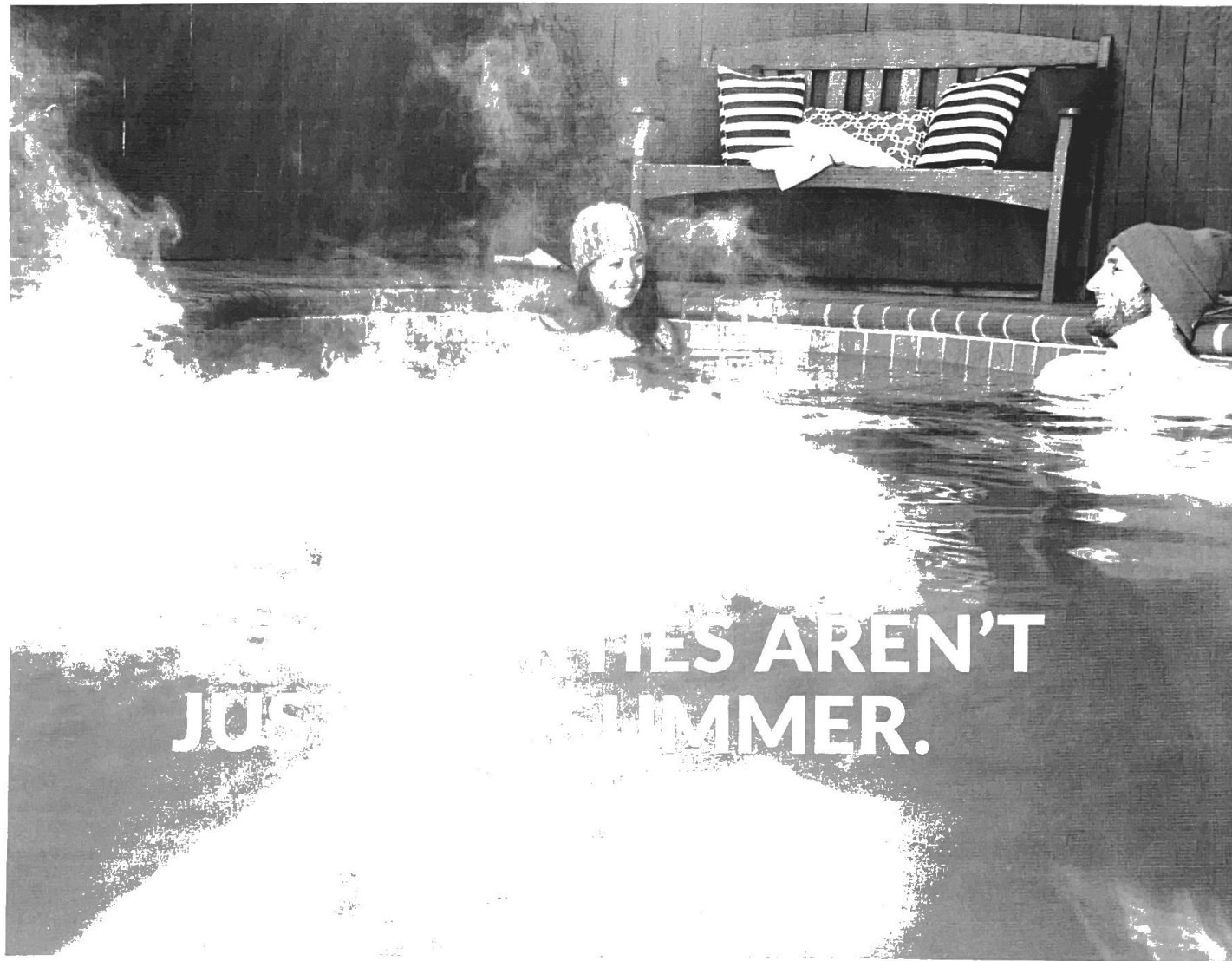
Hi Kathy,

Our septic company identified the location of our septic field today and I marked it on this map. Please let me know if you need anything else.

Thank you, Kimberly







H400FD

**Front-panel-only access** provides easy service and maintenance, avoiding the problems and costs associated with front-and-back-panel access heaters

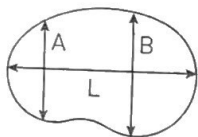
**Universal junction boxes** on left and right sides make electrical and automation installation simple and convenient

**Intuitive control pad** with protective cover is always easy to read and operate

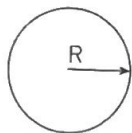
# SELECTING THE CORRECT SIZE UNIVERSAL H-SERIES HEATER

WIND SURF AND SPA SUPPLIES, INC.  
CLINTON TWP., IN 46033

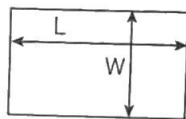
1. Determine your pool's surface area in square feet:



$$\text{AREA} = (A+B) \times L \times .45$$



$$\text{AREA} = R \times R \times 3.14$$



$$\text{AREA} = L \times W$$

2. Select the model that corresponds with a surface area that is equal to, or just greater than, your pool's surface area. For indoor pool installations, divide the pool's surface area by 3.

MODEL*	H500	H400	H350	H300	H250	H200	H150
SURFACE AREA	1,500	1,200	1,050	900	750	600	450

1. Determine your spa capacity in gallons [surface area x average depth x 7.5].
2. In the table below, locate the column with the spa/tub size in gallons that is closest to yours.
3. Select the desired time to raise the spa/hot tub temperature 30°F, read to the left and select the appropriate Universal H-Series model.

MODEL	SPA/TUB SIZE IN GALLONS**								
	200	300	400	500	600	700	800	900	1,000
Time in Minutes to Raise Spa/Tub Temperature 30°F***									
H500	7	11	14	18	22	25	29	32	35
H400	9	14	18	23	27	32	36	41	45
H350	10	16	21	26	31	36	41	46	52
H300	12	18	24	30	36	42	48	54	60
H250	15	22	29	36	43	51	58	65	72
H200	18	27	36	45	54	63	72	81	90
H150	24	36	48	60	72	84	96	108	120

SPECIFICATIONS AND DIMENSIONS	H500FD	H400FD	H350FD	H300FD	H250FD	H200FD	H150FD
BTU/hr	500,000	399,900	350,000	300,000	250,000	199,900	150,000
Thermal efficiency	83%	84%	83%	82.7%	83%	83%	82.7%
Width (inches)	41"	36"	33"	30"	28"	25"	21"
Depth (inches)	29½"	29½"	29½"	29½"	29½"	29½"	29½"
Height (inches)	24"	24"	24"	24"	24"	24"	24"
Water connections	2" x 2½"	2" x 2½"	2" x 2½"	2" x 2½"	2" x 2½"	2" x 2½"	2" x 2½"
Heat exchanger	Cupro Nickel	Cupro Nickel	Cupro Nickel	Cupro Nickel	Cupro Nickel	Cupro Nickel	Cupro Nickel
Indoor vent pipe diameter (inches) natural gas	6"	6"	8"	8"	4"	6"	6"
Indoor vent pipe diameter (inches) propane gas	8"	8"	8"	8"	6"	6"	6"
Heater weight (lbs)	223	160	158	145	134	123	110
Gas connection at heater	1"	¾"	¾"	¾"	¾"	¾"	¾"

H-Series heaters are available in a comprehensive range of BTU sizes for natural or propane gas. All units are certified by the Canadian Standards Association and carry the exclusive Hayward® warranty.

\*Model recommendation is based on a 30°F temperature rise, 3½ mph average wind velocity and elevation of up to 2,000 feet above sea level.

\*\*Heat lost and/or absorbed by spa walls or other objects will add to the time it takes the spa to heat up.

\*\*\*Based on an insulated and covered spa.

» [hayward.com](http://hayward.com) » 1-888-HAYWARD



Pumps » Filters » Heaters » Cleaners » Sanitization » Automation » Lighting » Water Features » White Goods

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LITUHS17



Flange Clamp Design allows 360° rotation of valve to simplify plumbing.

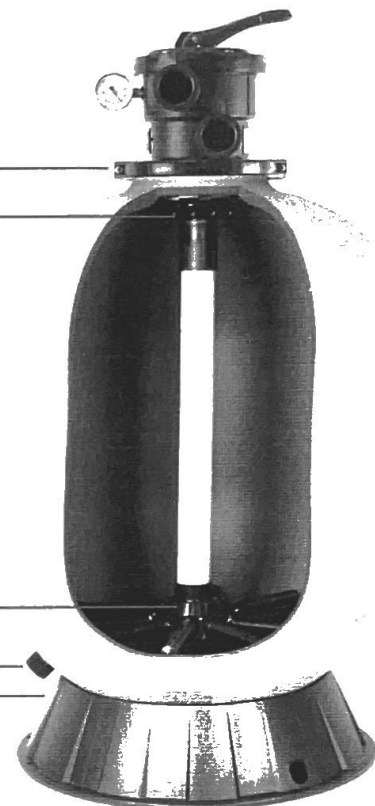
Integral Top Diffuser ensures even distribution of water over the top of the sand media bed. Full-size internal piping gives smooth, free-flowing performance.

Unitized, Corrosion-Proof Filter Tank molded of tough, durable, colorfast polymeric material for dependable, all-weather performance with only minimal care.

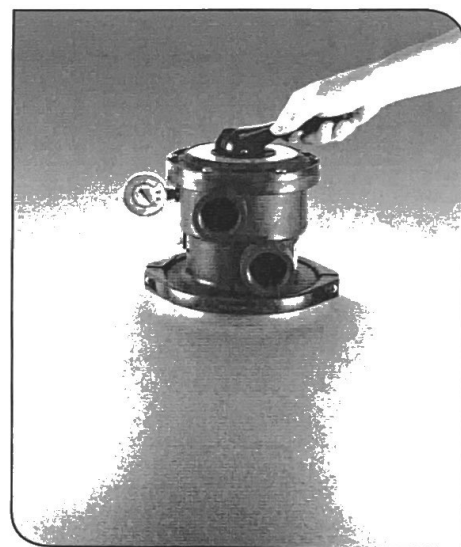
Efficient, Multilateral Underdrain Assembly with precision-engineered, self-cleaning 360° slotted laterals give totally balanced flow and backwashing.

Integral Molded Drain Plug for easy draining of tank, without the loss of sand.

Totally Corrosion-Proof Base is rugged and attractively styled to provide strong, stable support.



SPECIFICATIONS — PRO SERIES HIGH-RATE SAND FILTERS	
FILTER TYPE	High-Rate Sand: No. 1/2 Silica Sand (.45 mm – .55 mm)
FILTER TANK	Molded Polymeric
UNDERDRAIN	360° Self-Cleaning Slotted Laterals, Precision-Installed in Ball Joint Assembly
CONTROL VALVE	1½" or 2" 7-Position, Top-Mount Vari-Flo™ with Lever-Action Handle
VALVE FASTENING	Flange Clamp Design
SUPPORT BASE	Injection-Molded ABS
PERFORMANCE RANGE	½ to 3 HP (30 to 120 GPM) .37 to 2.2 KW (114 to 454 LPM)
DIMENSIONS	S180T – 18½" W x 35" H (470 mm x 889 mm) S210T – 20½" W x 38" H (521 mm x 965 mm) S220T – 22½" W x 41" H (572 mm x 1041 mm) S244T – 24½" W x 42" H (622 mm x 1067 mm) S310T2 – 30½" W x 48" H (775 mm x 1219 mm) S360T2 – 35¼" W x 53" H (895 mm x 1346 mm)

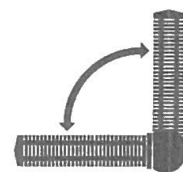


PERFORMANCE DATA										
MODEL NUMBER	EFFECTIVE FILTRATION AREA		DESIGN FLOW RATE*		TURNOVER				SAND REQUIRED	
					GALLONS		KILOLITERS			
S180T	1.75	0.163	35	132	16,800	21,000	63.59	79.48	150	68
S210T	2.20	0.205	44	167	21,120	26,400	79.94	99.92	200	91
S220T	2.64	0.246	52	197	24,960	31,200	94.47	118.09	250	114
S244T	3.14	0.292	62	235	29,760	37,200	112.64	140.80	300	136
S310T2	4.91	0.457	98	371	47,040	58,800	178.05	222.56	500	227
S360T2	7.07	0.660	141	535	67,858	84,823	256.80	321.10	700	318

\*Based upon 20 GPM per ft.<sup>2</sup> [814 LPM per m<sup>2</sup>]. Maximum allowable NSF rating.

Vari-Flo 7-Position Control Valve with easy-to-use lever-action handle lets you "dial" any of seven valve/filter functions.

Patented Service-Ease Design



with unique folding ball joint design allows lateral assembly to be easily accessed for simple servicing.



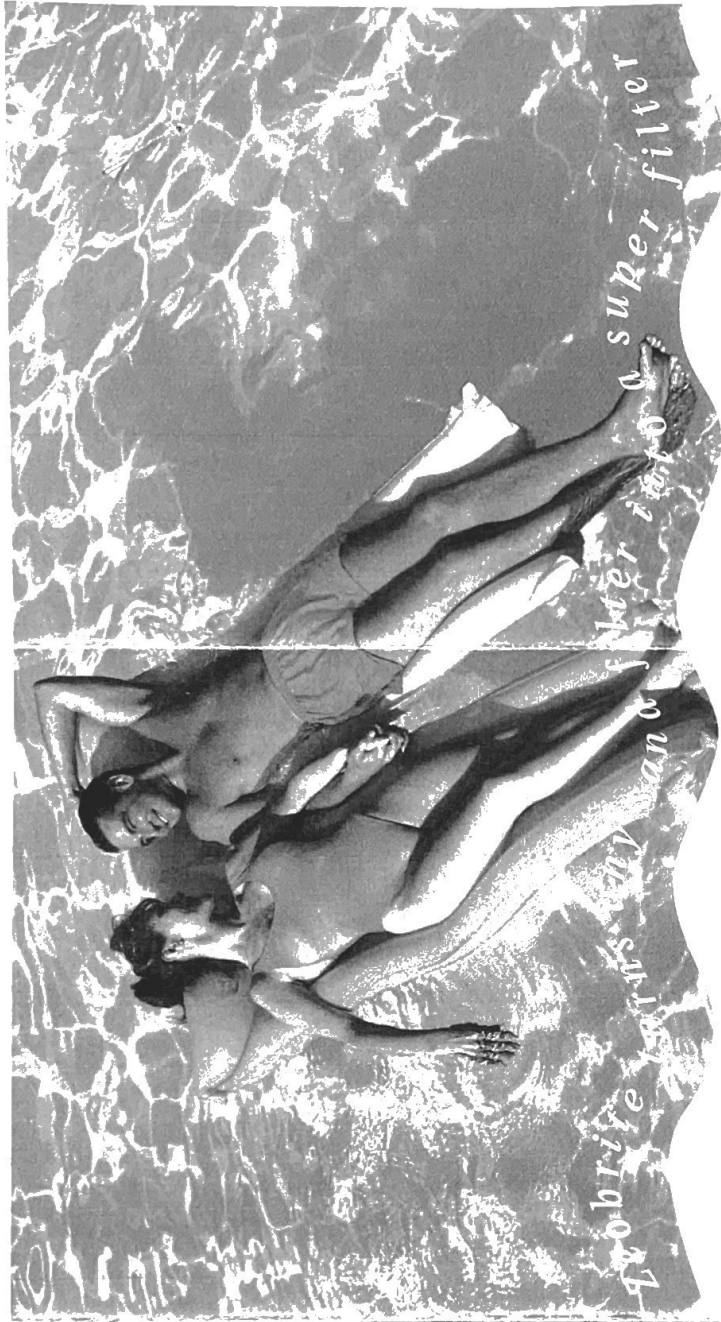
# zeobrite®

ZEOBRITE TURNS ANY SAND FILTER INTO A SUPER FILTER. USING AN ALL-NATURAL ZEOLITE MINERAL, ZEOBRITE PROVIDES MANY VALUABLE ADVANTAGES OVER ORDINARY SAND.

- Provides Superior Water Clarity
- Lowers Total Operating Cost
- Cuts Backwashing up to 50%
- Reduces Chloramines, Odor and Eye Burning
- Filters Particles Down to 3 Microns
- Environmentally Safe, All Natural



**MOLECULAR SIEVE FILTER MEDIA™**



Zeolite is a naturally occurring mineral formed millions of years ago. Viewed under an electron microscope, the granules reveal void spaces as small as 3 microns. Small particles of clay and silt suspended in water are trapped in the void spaces. Molecular sieving occurs when water contaminants such as ammonia and chloramines are adsorbed and chemically locked onto the zeolite granules.

The combination of physical entrapment of fine particles and molecular sieving of contaminants makes zeolite a superb water filtration media and produces superior water clarity compared to regular sand media.

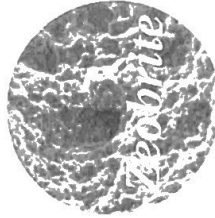
Best of all, Zeobrite lasts just as long as sand. And when it's finally time for replacement, all natural Zeobrite can be mixed into your garden soil, planter boxes or spread over your lawn as a natural soil enhancer.

*Sand just can't filter like Zeobrite!*



*Sand*

Magnified 1200 times, you can see that a grain of ordinary sand looks relatively smooth, with very few areas to trap dirt and algae from your pool water. Only the area between sand particles can filter debris.



Now compare Zeobrite; there are countless little pockets, nooks and crannies in every granule to trap dirt down to 3 microns. Zeobrite is a molecular sieve that catches the smallest irritating ammonia ions!

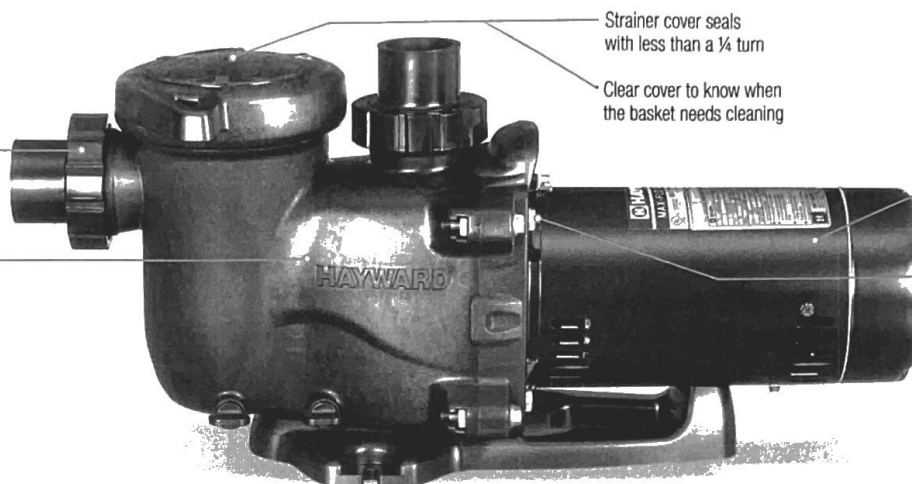


Aligns with the entire MaxFlo line for seamless retrofit installations

All models include 1 1/2" x 2" union connections

Advanced hydraulics for increased efficiency and priming ability

Self-priming (suction lift up to 8' above water level)



Strainer cover seals with less than a 1/4 turn

Clear cover to know when the basket needs cleaning

Pressure testable to 50 psi maximum

Heavy-duty motor

Easy to service with just 4 bolts to remove

Optional riser base (SPX2300GR) provides alignment with Sta-Rite® Dyna-Pro®

## MaxFlo XL™ Pump

MaxFlo XL is the ideal self-priming, medium-head pump for entry-level, new construction and aftermarket applications. MaxFlo XL's advanced hydraulics deliver the performance and reliability pool pros need, while its silent operation, conveniences and exceptional value will make it a favorite with pool owners.

Model Number	Total H.P.	Rated H.P.	Service Factor	Voltage	Union Connections	Dim. "A"	Ctn. Qty.	Ctn. Weight
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### Energy Efficient Max Rated Single-Speed

SP2305X7EESP*	0.95	3/4	1.27	115/208-230	1 1/2" x 2"	13 3/4"	1	34 lbs.
SP2305X7EE	0.95	3/4	1.27	115/208-230	1 1/2" x 2"	13 3/4"	1	34 lbs.

### Standard Efficient Max Rated Single-Speed

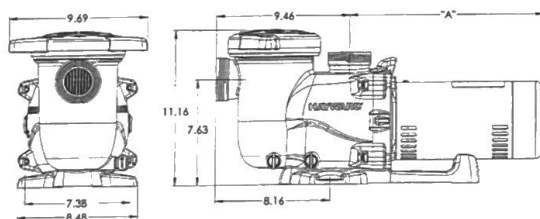
SP2305X7	0.95	3/4	1.27	115/208-230	1 1/2" x 2"	13 3/4"	1	34 lbs.
SP2307X10	1.25	1	1.25	115/208-230	1 1/2" x 2"	14 1/4"	1	37 lbs.
SP2310X15	1.65	1 1/2	1.1	115/208-230	1 1/2" x 2"	15 1/2"	1	42 lbs.
SP2315X20	2.10	2.0	1.05	115/208-230	1 1/2" x 2"	15 1/2"	1	45 lbs.

### Energy Efficient Max Rated Dual-Speed

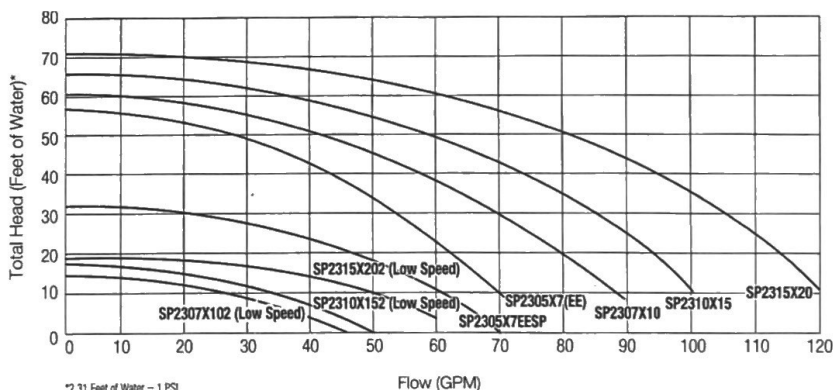
SP2307X102*	1.25	1	1.25	230	1 1/2" x 2"	15"	1	41 lbs.
SP2310X152*	1.65	1 1/2	1.1	230	1 1/2" x 2"	15 1/2"	1	43 lbs.
SP2315X202*	2.10	2.0	1.05	230	1 1/2" x 2"	16"	1	46 lbs.

\*ENERGY STAR certified

## Dimensional Drawing



## MaxFlo XL Medium Head Pumps



To take a closer look at MaxFlo XL or other Hayward products, go to [hayward.com](http://hayward.com) or call 1-888-HAYWARD.

MaxFlo XL Series Pumps are listed by:



Select MaxFlo XL models are ENERGY STAR certified



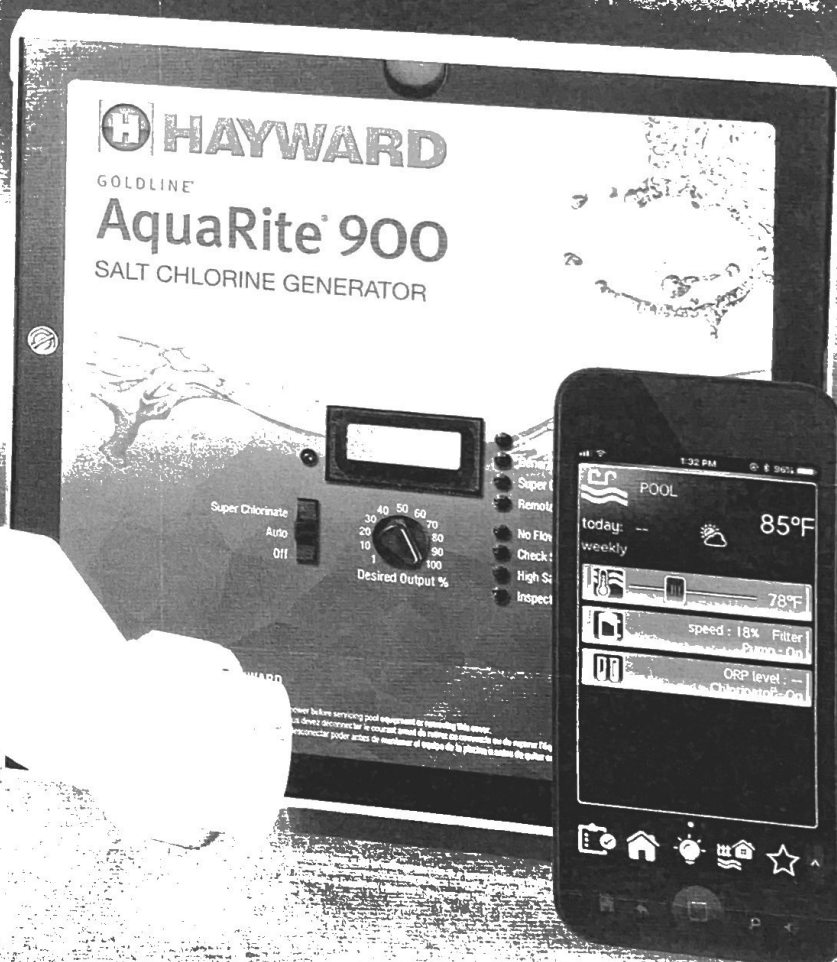
620 Division Street | Elizabeth, NJ 07201



# AquaRite® 900 Series

Salt Chlorinator Systems

THE WORLD'S #1 SALT CHLORINATOR,  
NOW AVAILABLE WITH SMART CONTROL



EXPERT LINE



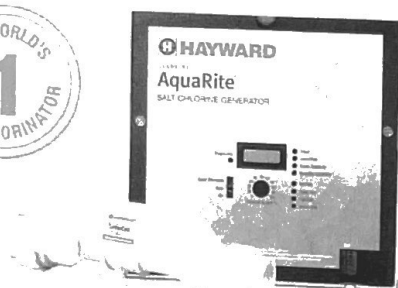
PREMIUM PRODUCTS



NOT SO NOT

## Discover the benefits of salt chlorination with the brand that does it best.

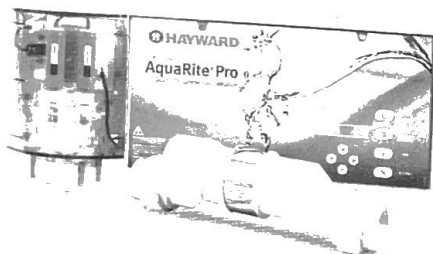
More U.S. households have a Hayward salt chlorination system than any other two manufacturers combined. See why nearly 1 million households worldwide choose our salt systems to safely and naturally sanitize their pools.



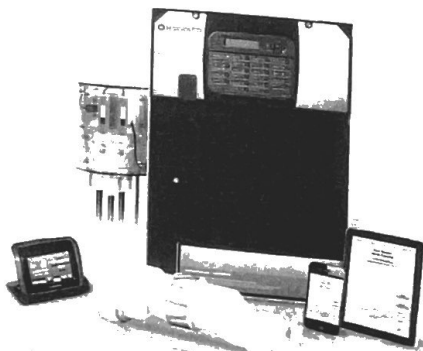
AquaRite®



AquaRite® 900  
EXPERT LINE



AquaRite® Pro



### Comfort, convenience and cost savings— courtesy of the world's #1 salt chlorinator.

Hayward's world-renowned AquaRite salt chlorination system provides a convenient alternative to conventional chlorine, automatically satisfying 100% of your pool's chlorination needs, and creating the softest, silkiest water possible. With the industry's best warranty support and cost savings of more than 50% over conventional chlorine, AquaRite will save you money for years to come. Add to that an independent certification from the National Sanitation Foundation (NSF), and it's easy to see why this powerful system is #1 in the world.

### The world's best-selling salt system— now with an exclusive advantage.

AquaRite 900 is designed to provide the same superior salt chlorination you expect from Hayward, but with an Extended Life TurboCell, it produces 25% more chlorine over its lifetime than our leading AquaRite systems. The Extended Life TurboCell cuts your annual chlorine costs by 50% or more, to less than \$1 per pound. Plus, with an industry best 4-year warranty, you can relax in the comfort of your pool completely worry-free.

AquaRite 900 is an EXPERT LINE product and is only available through your local pool professional.

### A perfect score in water quality. No testing required.

AquaRite Pro is the integrated, professional-grade system that combines AquaRite salt chlorination with Sense and Dispense® chemistry automation. By automatically sensing and adjusting chlorine and pH levels, it creates perfectly balanced water with no measuring, testing or adjusting on your part. With AquaRite Pro, enjoy the most consistent water quality possible to minimize maintenance and maximize relaxation.

### Powerful automation meets pristine pool water.

AquaPlus simplifies pool and spa ownership by bundling Hayward control capabilities and salt chlorination into one easy-to-order, easy-to-install package. Control any pool or spa function you like, and get the softest, silkiest water possible. Plus, when you integrate AquaPlus with AquaConnect Remote Pool Management, you can access any backyard function from anywhere in the world via your iPhone®, iPad® or Android device.