CMB

8.17.11

CITY OF MIAMI BEACH
BUILDING DEPARTMENT
1700 CONVENTION CENTER DRIVE
2ND FLOOR- CITY HALL
MIAMI BEACH, FL 33139

I (We) have been retained by: **Van Kirk & Sons, Inc**, to perform special inspector services under the Florida Building Code at the **5300 Lagorce Drive, Miami Beach, Florida 33140** project on the below listed structures as of **August 16, 2011** (date). I am a professional engineer licensed in the State of Florida.

Process Numbers: B11047[illegible] **Master Permit (If Applicable):** _____

- ☐ Special Inspector for Pilings, FBC ~~1822~~ 1.20
- ☒ Special Inspector for Soil Compaction, FBC 1820.3.1
- ☐ Special Inspector for Precast Attachments, FBC 1927.12.2 (By P.E. or R.A.)
- ☐ Special Inspector for Reinforced Masonry, FBC 2122.4
- ☐ Special Inspection for Steel Bolted & Welded Connections, FBC 2218.2 (By P.E. or R.A.)
- ☐ Special Inspector for Trusses over 35 feet long or 6 feet high, FBC 2319.17.2.4.2 (By P.E. or R.A.)
- ☐ Special Inspector for _____

NOTE: Only the marked boxes apply.

**The following individual(s) employed by this firm or me are the authorized representatives to perform inspections.

1. **William Grimes, BN3124**
2. **Mark A. Mesiano, P.E., FL. Reg. No. 48202**
3. _____
4. _____

***NOTE: FBC 2001 HVZ sections 1927.12.2, 2218.2, 2319.17.4.2 requires either a Registered Professional Engineer or Registered Architect to perform the actual inspections.**

I, (we) will notify the City of Miami Beach Building Department of any changes regarding authorized personnel performing inspection services.

I, (we) understand that a Special Inspection Log for each building must be displayed in a convenient location on the site for reference by the City of Miami Beach Building Department Inspector. All mandatory inspections, as required by the Florida Building Code, Inspection performed by the Special Inspector hired by the Owner are in addition to the mandatory inspections performed by the Building Department. Further, upon completion of the work under each Building Permit, I will submit to the Building Inspector at the time of the final inspection the completed inspection Log form and a sealed statement indicating that, to the best of my knowledge, belief and professional judgment those portions of the project outlined above meet the intent of the Florida Building Code and are in substantial accordance with the approved plans.

Architect/ Engineer Signature: Reza Javidan 8/16/11

Architect/ Engineer Name Printed: **Reza Javidan, P.E.**

Address: **250 S.W. 13th Avenue Pompano Beach, Florida 33069**

Phone Number: **954-781-6889**

Owner/ Agent Signature: _____

Owner/ Agent Name Printed: _____

Building Department Accepted By: _____ 8/17/11

Signed and Sealed
60223
License Number
Date: August 16, 2011

ENGINEERING & TESTING, INC.

Phone: (866) 781-6889 Fax: (866) 784-8550
www.floridaengineeringandtesting.com
250 S.W. 13th Avenue
Pompano Beach, FL 33069

REPORT OF GEOTECHNICAL EXPLORATION

FOR:

Van Kirk & Sons, Inc
3144 S.W. 13th Drive
Deerfield Beach, Florida 33442

PREPARED FOR:

Proposed Swimming Pool
Shore Residence
5300 Lagorce Drive
Miami Beach, Florida 33140

PREPARED BY:

Florida Engineering & Testing, Inc.
250 S.W. 13th Avenue
Pompano Beach, Florida 33069
(954) 781-6889

ON:

August 16, 2011

Quality QA *Assurance*

CNB
08.17.11

TABLE OF CONTENTS

DISCLAIMER

Our report findings are based on present onsite soil conditions encountered. **It is imperative that you read our reports in their entirety and follow all recommendations as listed.** Failure to follow our recommendations, may result in delays and additional costs due to permitting agencies (Building Department, etc.) withholding a Certificate of Occupancy for your proposed structure(s).

All recommendations shall be followed in order to receive a final certification, which may include but not be limited to density testing per lift of fill material, demucking verifications, piling inspections. In addition, these reports are for foundation analysis only and shall not be used for excavating, backfilling, or pricing estimates.

Please schedule us at least 24 hours in advance for all tests and inspections. If you choose to use another engineering firm for further testing and inspections, it is your responsibility to ensure that they provide you with the proper certification in writing, as outlined in our report.

FLORIDA

ENGINEERING & TESTING, INC.

Phone: (866) 784-6889 • Fax: (866) 784-8550
www.floridaengineeringandtesting.com
250 S.W. 13th Avenue
Pompano Beach, FL 33069

August 16, 2011

Job Order No.: 11-1971

Van Kirk & Sons, Inc.
3144 S.W. 13th Avenue
Deerfield Beach, Florida 33442

RE: SUBSOIL INVESTIGATION
Proposed Swimming Pool
Shore Residence
5300 Lagorce Drive
Miami Beach, Florida 33140

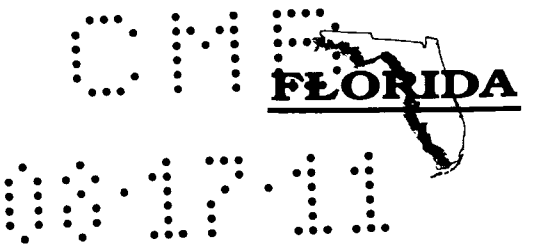
Dear Sir or Madam;

Pursuant to your request, Florida Engineering & Testing, Inc., has completed a subsoil investigation on August 15, 2011, at the above referenced site. The purpose of our investigation was to verify subsoil conditions relative to the pool foundation preparation and design.

One (1) **SPT** boring was performed according to **ASTM D-1586** down to a depth of fifteen feet (15') below existing ground level (BEGL) (see attached field sketch for locations). The following is a general condition for the subject site:

Depth From	To	Soil Descriptions
0'0" -	2'0"	Brown Sand
2'0" -	4'0"	Grayish Brown Sand with Some Shell Fragments
4'0" -	6'0"	Gray to Light Brown Sand with Some Shell Fragments
6'0" -	15'0"	Light Brown Sand with Some Shell Fragments

Groundwater table elevation was measured immediately at the completion of the boring and was found at six feet (6'0") BEGL. Fluctuation in water levels should be anticipated due to surface runoff, tidal influences, seasonal variations, varying ground elevation, construction dewatering and pumping activities in the area. Site contractor must familiarize themselves with site conditions in the event groundwater controls and dewatering is needed. The contractor shall make sure that groundwater levels on adjacent properties are not affected by the contractors dewatering activities. Specialty groundwater contractors shall be consulted for all work below the groundwater level.



The boring log attached presents a detailed description of the soils encountered at the test location. The soil stratification shown on the boring log is based on the examination of the recovered soil samples and interpretation of the driller's field log. It indicates only the approximate boundaries between soil types. The actual transitions between adjacent soil types may be gradual.

Based on our understanding of the proposed structure and the information obtained from our field boring log; we recommend the following procedures for foundation preparation:

1) Locate, dewater, and excavate pool or spa area plus two feet (2') past the outer perimeter of the structure down to pool or spa bottom elevation.

2) All excavations shall maintain a minimum of 2 horizontal to 1 vertical (2:1) next to all foundations to prevent undermining of the existing foundations. If the required slope recommendations cannot be maintained, then shoring of the existing foundations may be required to prevent undermining.

3) Compact the excavated area with a heavy self-propelled vibratory roller to a minimum of 95% of the A.S.T.M. D-1557 modified proctor method.

4) Backfill to proper pool bottom elevation if needed using a clean granular material placed in lifts not to exceed twelve inches (12") in thickness and compacted as per item 3.

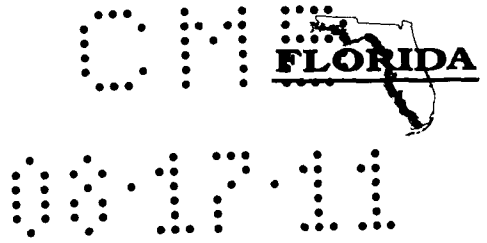
5) Care should be taken when using vibration in case of existing structures in the vicinity of the construction area. If vibration cannot be used for compaction, static compaction may be applied. However, in this case, the compacted layers should not exceed six inches (6") in thickness.

6) All construction fill material shall be clean granular soil, free of organics or other deleterious material, and shall contain no more than ten percent fines passing a U.S. Standard No. 200 sieve (0.075mm). In order to ensure that the soils at the bottom of the pool are stabilized we recommend that a six-inch (6") layer of D.O.T. #57 stone to be placed at the bottom of the pool foundation.

7) Representative samples of the on-site and proposed fill material should be collected and tested to determine the classification and compaction characteristics.

8) Verify all densification procedures by taking an adequate number of field density tests in each layer of compacted material. **This must be scheduled before steel placement. If steel is already in-place, it must be removed from all areas to be tested prior to performing densities.**

9) All Geotechnical work shall be performed under the supervision of a Geotechnical Engineer or his representative.



Provided the above foundation recommendations are achieved and verified; it is our opinion that the proposed structure can be designed for a shallow foundation system with a permissible soil bearing pressure not to exceed 2,000 P.S.F. Bearing capacity certification requires satisfactory completion and verification of all the above foundation recommendations.

If applicable, provisions shall be made by the architect, engineer of record and contractor to address differential settlements when tying in new to existing structures. If applicable, the seawall structure should be inspected to verify the structural integrity and prevent undermining due to the piling installation or excavation operations.

Regardless of the thoroughness of a Geotechnical exploration there is always a possibility that conditions may be different from those of the test location; therefore Florida Engineering & Testing, Inc., does not guarantee any subsoil condition surrounding the bore test hole. For a more accurate portrayal of subsurface conditions, the site contractor should perform test pits. The discovery of any site or subsurface conditions during construction which substantially deviate from the information in our subsoil investigation should be reported to us immediately for our evaluation. In accepting this report the client understands that all data from this soil boring report is intended for foundation analysis only and is not to be used for excavating, backfilling, or pricing estimates. The site contractor must familiarize themselves with the job site conditions prior to bidding.

As mutual protection to clients, the public, and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions, or extracts from or regarding our reports is reserved pending our written approval. All work must be conducted under the supervision of our Geotechnical engineer. All work shall be conducted in compliance with the Florida Building Code FBC and OSHA workers protection rules and all applicable Federal, State, County and City rules and Regulations.

Florida Engineering & Testing, Inc., appreciates the opportunity to be of service to you at this phase of your project. If you have any questions or comments, please give us a call. We would be pleased to help any way we can. It has been a pleasure working with you and look forward to doing so in the near future.

Sincerely,

8/16/11

Reza Javidan, P.E.
Florida Engineering & Testing, Inc.
Florida Reg. No. 60223
Certificate of Authorization No. 6923

SPT Test Boring Report

Client: Van Kirk & Sons, Inc. **Hole No:** B-1

Project: Proposed Swimming Pool **Date:** 8/15/11

Address: 5300 Lagorce Drive Miami Beach, Florida 33140

Location: See Attached Field Sketch

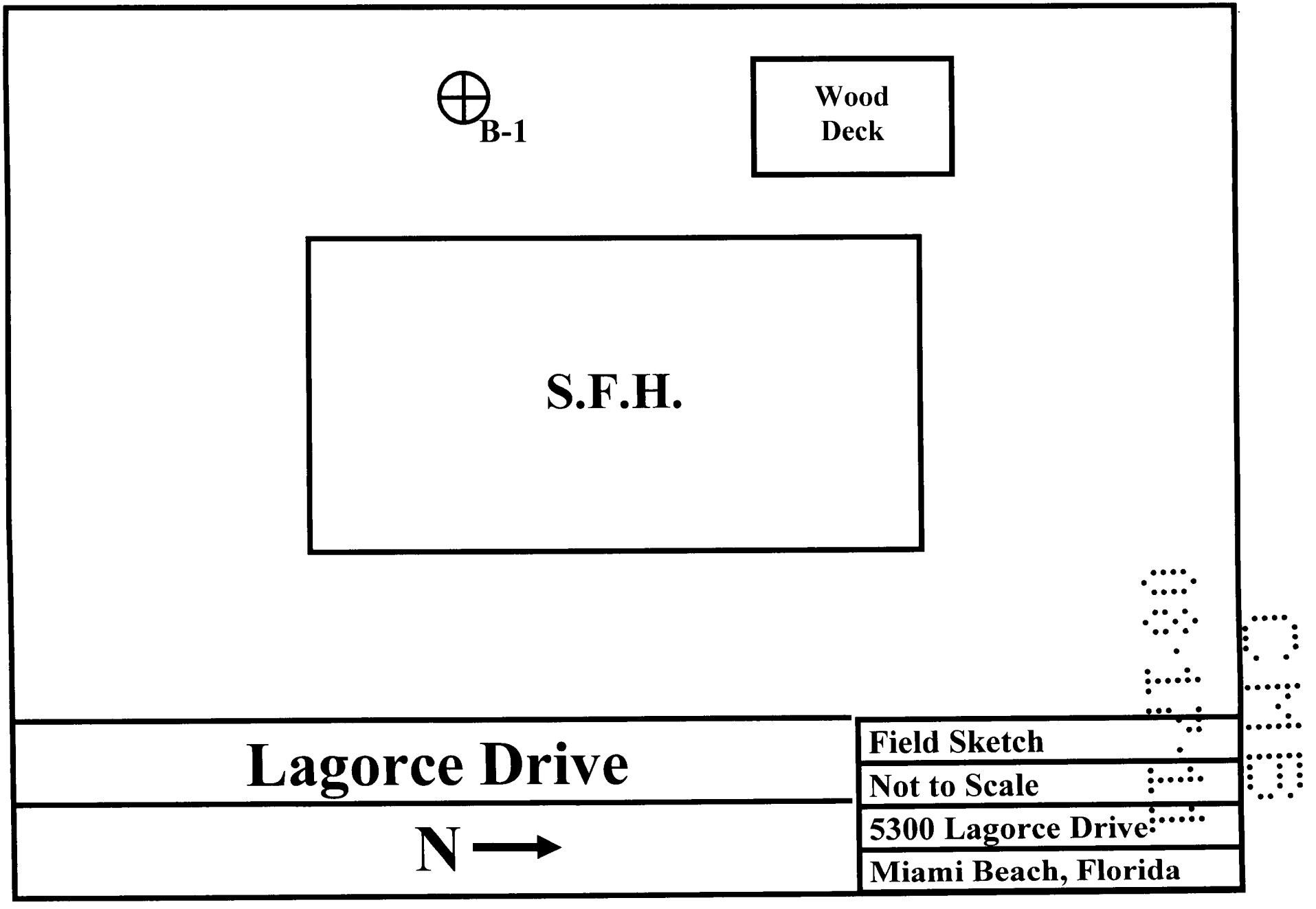
Depth (Ft)	Soil Descriptions	Hammer Blows	N	Penetration "N" Value (10 20 30 40)
	0' - 2' Brown Sand	2 3 3 4	6	
	2' - 4' Grayish Brown Sand with Some Shell Fragments	3 4 5 6	9	
5	4' - 6' Gray to Light Brown Sand with Some Shell Fragments	6 5 5 7	10	
		8 10 15 26	25	
		9 10 10 15	20	
10	6' - 15' Light Brown Sand with Some Shell Fragments	-- -- -- -- -- --	A	
		13 12 12 15	24	
15				

Water Level: 6'0" BEGL

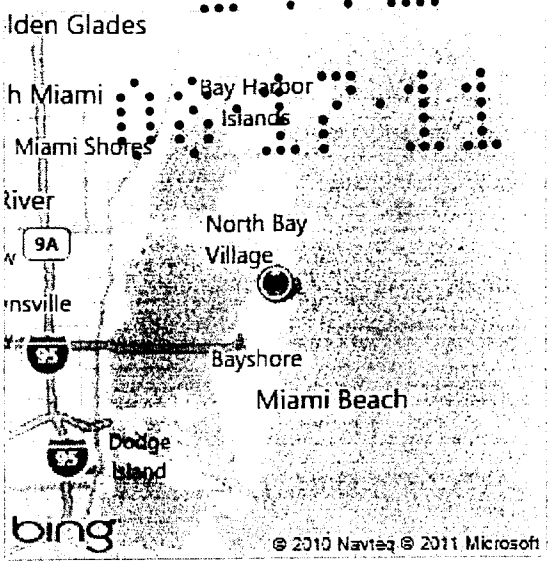
A = Auger
Ref = Refusal
BEGL = Below Existing Ground Level
0 = Weight of Hammer

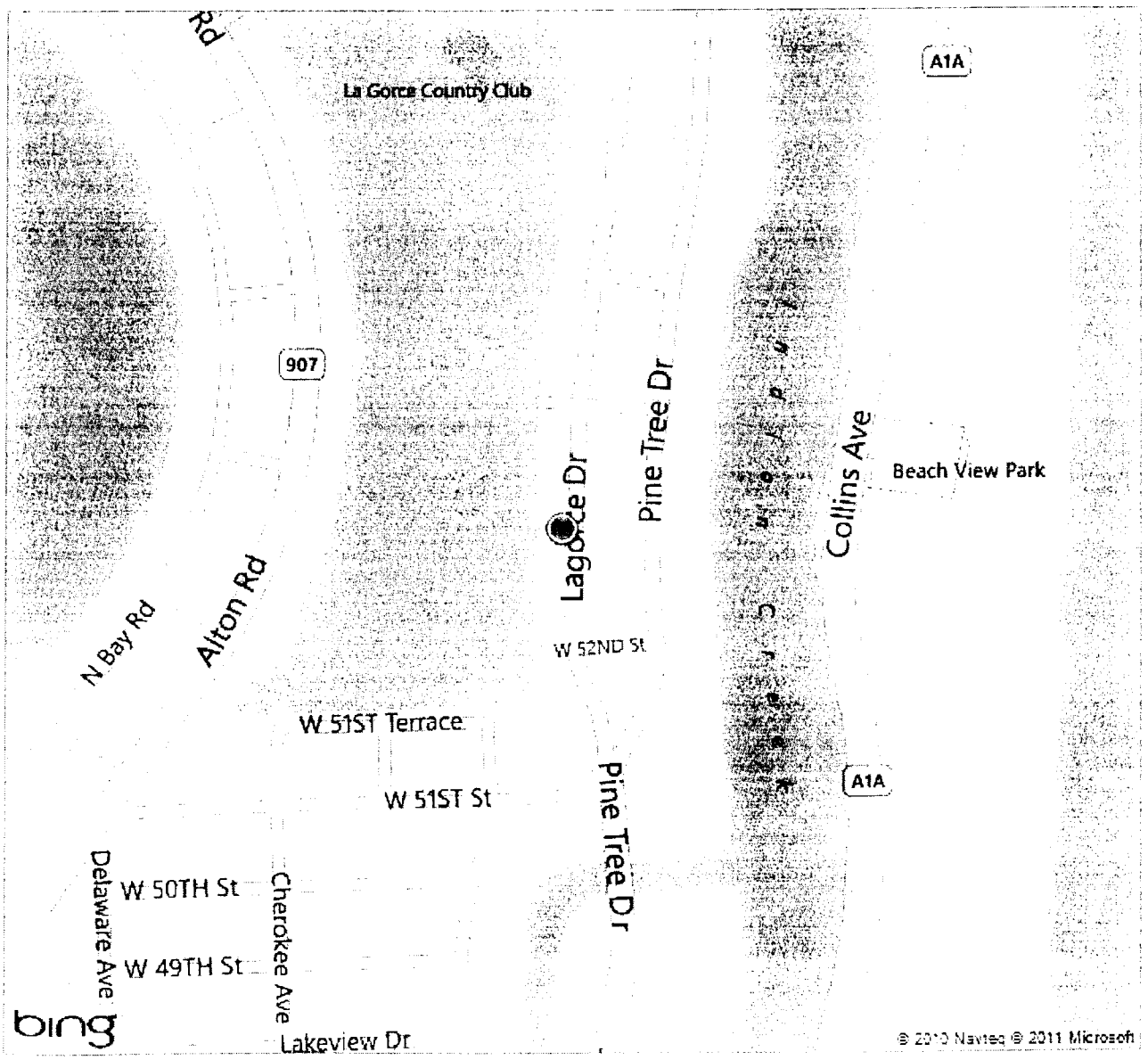
6/16/11

Reza Javidan, P.E.
Florida Engineering & Testing, Inc.
Florida Reg. No. 60223
Certificate of Authorization No. 6923


B-1
Wood
Deck
S.F.H.
Lagorce Drive
N
Field Sketch
Not to Scale
5300 Lagorce Drive
Miami Beach, Florida

Proposed Swimming Pool
Shore Residence
5300 Lagorce Drive
Miami Beach, Florida 33140





CME FLORIDA

GENERAL NOTES

- Soil boring(s) on unmarked vacant property or existing structure(s) to be demolished should be considered preliminary with further boring(s) to be performed after building pad(s) are staked out.
- As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.
- It is not our field inspector's responsibility to supervise, schedule, or stop any phase of the project. His/her responsibility is limited by the duties stated in the contract.
- It is the client's responsibility to provide adequate safety for the site and personnel.

KEY CLASSIFICATIONS & SYMBOLS

Correlation of Penetration Resistance with Relative Density and Consistency

	Dynamic Cone Penetrometer (Penetrometer Resistance)	Standard Penetration (Hammer Blows)	Relative Density
Sands	0 - 10	0 - 3	Very Loose
	10 - 25	3 - 8	Loose
	25 - 45	8 - 15	Firm
	45 - 75	15 - 25	Very Firm
	75 - 120	25 - 40	Dense
	> 120	> 40	Very Dense
Silts & Clay	0 - 6	0 - 2	Very Soft
	6 - 15	2 - 5	Soft
	15 - 30	5 - 10	Firm
	30 - 45	10 - 15	Stiff
	45 - 90	15 - 30	Very Stiff
	90 - 150	30 - 50	Hard

Particle Size

Boulder	> 12in
Cobble	3 - 12in
Gravel	4.76mm - 3in
Sand	0.074mm - 4.76mm
Silt	0.005mm - 0.074mm
Clay	< 0.005mm

Modifiers

0 - 5%	Slightly Silty/Clayey
5 - 30%	Silty/Clayey
30 - 50%	Very Silty/Clayey
0 - 2%	Very Slight Trace
2 - 5%	Slight Trace
5 - 10%	Trace
10 - 15%	Little
15 - 30%	Some
> 30%	With

Rock Hardness Description

Soft	Rock core crumbles when handled.
Medium	Can break core with your hands.
Moderately Hard	Thin edges of rock core can be broken with fingers.
Hard	Thin edges of rock core cannot be broken with fingers.
Very Hard	Rock core rings when struck with a hammer.

LIMITATIONS OF LIABILITY

WARRANTY

We warrant that the services performed by Florida Engineering and Testing, Inc., are conducted in a manner consistent with the level of skill and care ordinarily exercised by members of the profession currently practicing under similar conditions. No other warranties, expressed or implied, are made. While the services of Florida Engineering & Testing, Inc., are an integral and valuable part of the design and construction process, we do not warrant, guarantee, or insure the quality or completeness of services or satisfactory performance provided by other members of the construction process and/or the construction plans and specifications which we have not prepared, nor the ultimate performance of building site materials.

As mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

SUBSURFACE EXPLORATION

Subsurface exploration is normally accomplished by test borings. The soil boring log includes sampling information, description of the materials recovered, approximate depths of boundaries between soil and rock strata and groundwater data. The log represents conditions specifically at the location and time the boring was made. The boundaries between different soil strata are indicated at specific depths; however, these depths are in fact approximate and dependent upon the frequency of sampling. The transitions between soil stratum are often gradual. Water level readings are made at the time the boring was performed and can change with time, precipitation, canal levels, local well drawdown, and other factors.

Regardless of the thoroughness of a Geotechnical exploration there is always a possibility that conditions may be different from those of the test locations; therefore Florida Engineering & Testing, Inc., does not guarantee any subsoil condition surrounding the bore test holes. For a more accurate portrayal of subsurface conditions, the site contractor should perform tests pits. If different conditions are encountered, Florida Engineering & Testing, Inc., shall be notified to review the findings and make any recommendations as needed.

LABORATORY AND FIELD TESTS

Tests are performed in accordance with specific ASTM Standards unless otherwise indicated. All criteria included in a given ASTM Standard are not always required and performed. Each test report indicates the measurements and determinations actually made.

ANALYSIS AND RECOMMENDATIONS

The Geotechnical report is prepared primarily to aid in the design of site work and structural foundations. Although the information in the report is expected to be sufficient for these purposes, it is not intended to determine the cost of construction or to stand alone as construction specifications. In accepting this report the client understands that all data from the soil boring is intended for foundation analysis only and is not to be used for excavating, backfilling or pricing estimates. The site contractor must familiarize themselves with the job site conditions.

Report recommendations are based primarily on data from test borings made at the locations shown on the test boring reports. Soil variations may exist between borings and may not become evident until construction. If variations are then noted, Florida Engineering & Testing, Inc., should be contacted so that field conditions can be examined and recommendations revised if necessary.

The Geotechnical report states our understanding as to the location, dimensions, and structural features proposed of the site. Any significant changes in the nature, design, or location of the site improvements must be communicated to Florida Engineering & Testing, Inc,, so that the Geotechnical analysis, conclusions, and recommendations can be appropriately adjusted.

CONSTRUCTION OBSERVATIONS

Construction observation and testing is an important element of Geotechnical services. The Geotechnical Engineer's Field Representative (Field Rep.) is the "owner's representative" observing the work of the contractor, performing tests, and reporting data from such tests and observations. The Geotechnical Engineer's Field Representative does not direct the contractor's construction means, methods, operations, or personnel. The Field Rep. does not interfere with the relationship between the owner and the contractor, and except as an observer, does not become a substitute owner on site. The Field Rep. is only collecting data for our Engineer to review.

The Field Rep. is responsible for his/her safety only, but has no responsibility for the safety of other personnel and/or the general public at the site. If the Field Rep. does not feel that the site is offering a safe environment for him/her, the Field Rep. will stop his/her observation/ testing until he/she deems the site is safe. The Field Rep. is an important member of a team whose responsibility is to observe the test and work being done and report to the owner whether that work is being carried out in general conformance with the plans and specifications.

CMB

UNIT 11

Residential Swimming Pool, Spa or 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 5 Bar La Gorce Ct. and hereby affirm that one of the following methods will be used to meet the requirements of Florida Statute Chapter 515, and Florida Building Code Section 242.2.

Please initial the method(s) to be used for your pool or spa.

_____ The pool will be equipped with an approved safety pool cover that complies with ASTM F1346-91. (Submit Manufacturer specifications)

_____ A removable child barrier (with one end that shall be removable without the aide of tools) in compliance with FBC424.17 will protect the pool perimeter. (Submit Manufacturer Specifications)

__X__ A combination of "non-dwelling" walls (fences, screen enclosures, etc.) will protect the perimeter. The plans must specify the type and location of all non-dwelling walls.

_____ A combination of protection which incorporates dwelling walls with openings into the pool perimeter and complying with FBC Section 424.2.17.1.9 (2): All doors and windows providing direct access to the pool must be equipped with self close and self latch-locking mechanical devices installed a minimum of 54" above the threshold. (Submit specifications for approval)

_____ A combination of protection which incorporates dwelling walls with openings into the pool perimeter and complying with FBC Section 424.2.17.1.9 (1): All doors and windows providing direct access to the pool shall be equipped with an exit alarm complying with UL 2017. (Submit Manufacturers specifications)

In accordance with the Florida Building Code, a final inspection of the pool project will not be approved without compliance with Private Swimming Pool Safety Requirements, and upon expiration of the permit, the pool shall be presumed to be unsafe.

I understand that not having one of the above systems installed will constitute a violation of Chapter 515, F.S., and will be considered as committing a misdemeanor of the second degree, punishable as provided in Section 775.082 or Section 775.083 F.S. This form must be signed by the owner/agent and the prime contractor.

Matt Shore, agent 8/10/11

Owner/Agent Printed Name, Signature and Date

State of Florida
County of Dade
Sworn and Subscribed before me this 16 day of Aug., 2011
By Matthew Shore who is personally
Known ___ or produced D.L. as
identification.

Robert P. Van Kirk

Notary Public, State of Florida

NOTARY PUBLIC-STATE OF FLORIDA
Robert P. Van Kirk, Jr.
Commission # DD862183
Expires: MAR. 20, 2013
BONDED THRU ATLANTIC BONDING CO., INC.

X Robert P. Van Kirk

Prime Contractor Printed name, Signature and Date

State of Florida
County of Dade
Sworn and Subscribed before me this 16 day of Aug, 2011
By Robert P. Van Kirk Jr. who is personally Known ✓
or produced ___ as identification.

Patricia L. Cobban

Notary Public, State of Florida

NOTARY PUBLIC-STATE OF FLORIDA
Patricia L. Cobban
Commission # DD845967
Expires: FEB. 02, 2013
BONDED THRU ATLANTIC BONDING CO., INC.

PROTECT-A-CHILD
The Baby Safe® Pool Fence
1791-907 Blount Road
Pompano Beach, Florida 33069

Manufacturing Office
1791-907 Blount Rd.
Pompano Beach, FL 33069
(954) 979-1089
(954) 979-5240 Fax

Marketing Office
(772) 286-5020
1-800-992-2206
(772) 286-5029 Fax

http://www.protectachild.com
Email: pacpls@aol.com

MESH SAFETY BARRIER CERTIFICATION

Pool fences constructed in four (4) and five (5) foot heights by Protect-A-Child Pool Fence Systems, Inc. are hereby certified to meet or exceed requirements under the DEFINITION of Mesh Safety Barriers as set forth by section R4101.1.17.15 of the Building Code of the State of Florida.

This includes the Twitchell T70 pool fence fabric used in the Protect-A-Child Pool Fence assembly that complies with the following ASTM Standards:
ASTM D5034-95,
D3787-89, and
G53-96.

This mesh has been fully certified as meeting the above referenced Florida standard by the engineering firm of Cerny and Ivey.

If you have any questions or need additional information, please contact us.

Protect-A-Child Pool Fence Systems, Inc.

Bill Fillingame
President

PROTECT-A-CHILD®
POOL FENCE SYSTEMS

The Baby Safe® Pool Fence

1791-907 Blount Road
Pompano Beach, Florida 33069

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(954) 979-5240 Fax

Marketing Office
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1-800-992-2206
(772) 288-5029 Fax

http://www.protectachild.com
Email: pacpfs@aol.com

PRODUCT AND INSTALLATION GUIDELINES FOR FLORIDA

Protect-A-Child Pool Fence Systems, Inc. certifies that it's product meets the definition and requirements of a mesh safety barrier as defined in 4101.17.1.15 of the 2004 FBC Residential Building Code.

Strength: Spec sheets are on file showing that our fence mesh and support posts meet strength and UV degradation guidelines as stated in the 2004 FBC R4101.17.1.15

Fence height, post length, screw spacing, and fence assembly: Post extends 3" below grade and are attached to the mesh no more than 36" apart. Fence height is 48"

Screws and Assembly: Screws attaching the molding strip to the posts are according to guidelines at #8x1/2" and spacing of the screws is less than six (6) inches apart on the post.

Patio deck sleeves: When installed in a sound deck surface (concrete, brick, etc.) deck sleeves are of a nonconductive material (plastic)

Latching device: A secure latching device attaches each section of fencing at the height above the required 45" grade.

Barrier level: When installed, the bottom of the mesh barrier is less than one (1") above the deck surface.

INSTALLATION

ALL FENCING IS REQUIRED TO BE SPACED A MINIMUM OF 20" FROM THE EDGE OF THE POOL WATER.

LATCHING DEVICE: Each section must be affixed to the other at the top of the fence at least 45" above grade. One (1) of the latching devices between sections must have the jam nut tightened against the toggle wing such that it requires tools to loosen. This meets the requirement of the code specifying the use of tools to remove one post of the fence.

IN SOUND SURFACES SUCH AS CONCRETE, 2" THINK INTERLOCKING BRICK, AND BRICK MORTARED TO CONCRETE: Holes are drilled in the deck surface to a depth necessary to accommodate the fence posts. These holes are sleeved with plastic sleeves.

CHG
08-17-11

IN "UNSOUND" SURFACES SUCH AS 1" "SAND SET" BRICK PAVERS Holes are drilled into the pavers to accept 1 1/8" OD aluminum tubing or similar suitable metal material or 1" or 1 ¼ PVC pipe of sufficient length to extend below the paver or ground surface necessary to provide adequate support to the fence. Pipe length necessary for adequate support will dependupon the hardness of the ground or sand bed below grade. Typically this is 6"-8" when using aluminum pipe for sand set 1" thick brick paver patios where the sand bed has been thoroughly compacted and 18"-24" for grass and soil applications.

GRASS AND SOIL: 1 1/8 OD aluminum tubing or similar suitable metal material such as 1" or 1 ¼" PVC pipe of sufficient length to extend below the ground surface to a depth necessary to provide adequate support to the fence. Pipe length necessary for adequate support will depend upon the hardness of the ground and must be determined in the field. Typicaly this is 18"-24" depending upon ground hardness and material used. 1" PVC pipe requires pouring concrete around it to support it.

WOOD DECKS: Wood decks using 2X lumber can be drilled normally and fencing installed in the normal manner assuming the wood is in good condition. Any wood in less than good shape, thinne then 2X thickness, or not installed solidly will require an installation similar to the Sand Set Brick application listed above using tubing to extend into a solid surface below. Otherwise, the wood should be reinforced underneath with an additional block of wood screwed or nailed to the top surface.

PROTECT·A·CHILD®
POOL FENCE SYSTEMS
The Baby Safe™ Pool Fence

Manufacturing Office
1791-997 Blount Rd.
Pompano Beach, FL 33069
(954) 979-1089
Fax (954) 979-5240

Marketing Office
(772) 288-3020
Fax (772) 288-5028
1-800-882-2205
Website
www.protectachild.com
E-mail
help@protectachild.com

10-04-06

Matt Bogart
Protect-A-Child Pool Fence

Dear Matt:

The proper method of installing Protect-A-Child Pool Fencing in the ground is to first dig a small footer for each post, minimum size 8"x 8"x 14" deep. Next set an aluminum, copper, or schedule 40 PVC pipe with the proper ID to fit either the post itself or the fence sleeve. The length of the pipe should be at least as long as the depth of the hole itself. Pour cement around the pipe to fill the hole. Once the cement sets up, the post will be sufficiently supported to accept the fence post.

Sincerely,

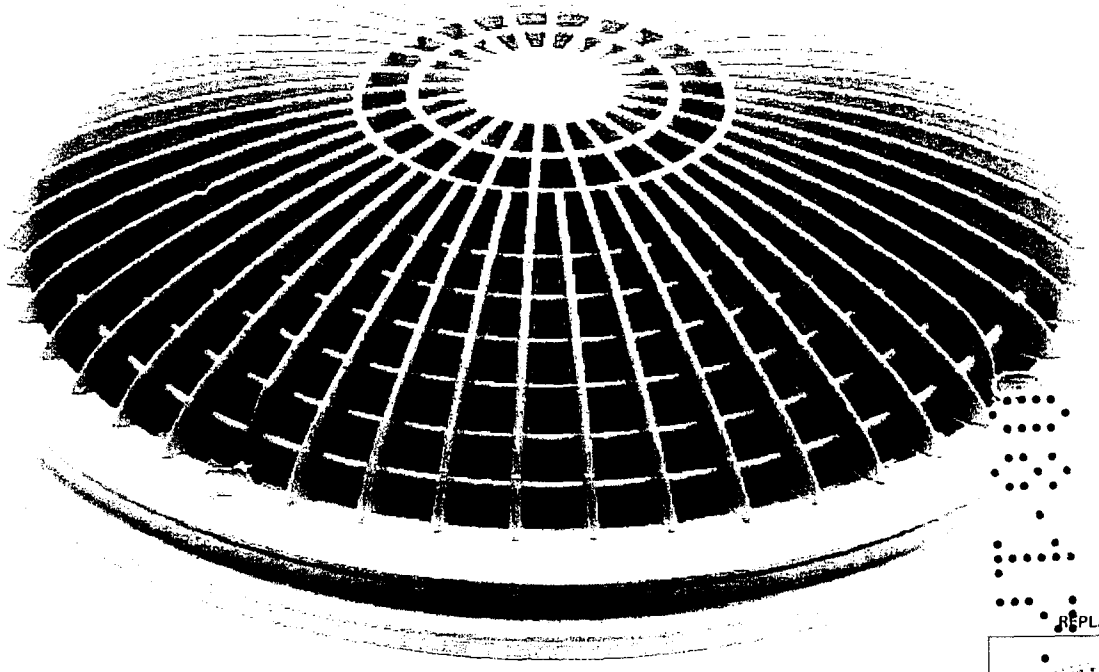
Don Coppedge
Vice President
Protect-A-Child Pool Fence Systems, Inc.

PRODUCT CHANGE NOTIFICATION

Our New 10" Tru Flo Drain

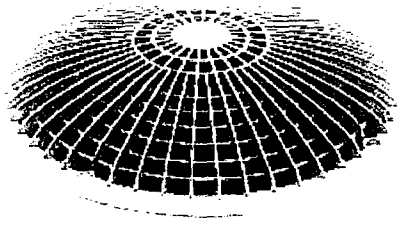
Robust design provides maximized flow for open area and safe suction capacity.

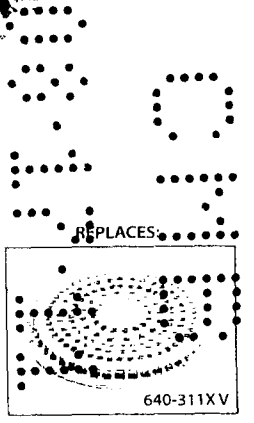
640-19XX V
cover & frame assembly



Size:	10"
Open Area:	33.7 in^2
GPM @ 1.5 fps:	156
Floor Flow Rate:	200 GPM
Wall Flow Rate:	136 GPM

642-241X V
cover only





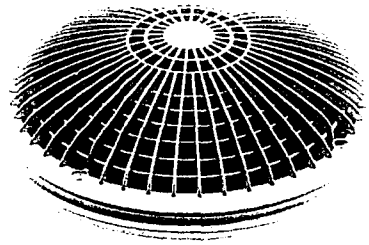
VGB 2008 · UL · CSA · NSF · APSP · Made in the USA

Listed, Certified and tested by UL in strict accordance to the requirements of ASME A112.19.8-2007 and ASME A112.19.8a-2008. Compliant to the latest Consumer Product Safety Commission (CPSC) requirements.

CERTIFICATION OF COMPLIANCE

10" *TRU* FLO DRAIN COVER

Contents: 1



Part Number: **640-19XX V**

Description:	**Round Tru Flo Drain & Frame**
Size:	**10"**
Open Area:	**33.7 in²**
GPM @ 1.5 fps:	**156**
Floor Flow Rate:	**200 GPM**
Wall Flow Rate:	**136 GPM**

VGB 2008

Date of Manufacture:

This product has been tested to ANSI/ASME 112.19.8-2007 (addendum 8a-2008) per §1404 of the Virginia Graham Baker (VGB 2008) Pool and Spa Safety Act. Certified by: Underwriters Laboratories, Inc., 2929 E. Imperial Highway, Suite 100, Brea, CA 92821-6729

This product is certified to comply with §1404 of the Virginia Graham Baker (VGB 2008) Pool and Spa Safety Act. A copy of the test results for the above may be found at www.waterwayplastics.com or go to www.ul.com. This product is manufactured by Waterway Plastics, Oxnard, CA 93030

Made in the USA

Waterway™

2200 East Sturgis Road Oxnard, California 93030 • Ph. 805.981.0262 • Fax 805.981.9403
waterway@waterwayplastics.com • www.waterwayplastics.com

Friction Loss in Sch. 40 PVC Pipe

BRANCH & TRUNK PIPES

Gallons/Minute	½ in. Velocity Ft./Second	½ in. Friction Loss Ft. Water/100 Ft.	½ in. Friction Loss PSI/100 Ft.	¾ in. Velocity Ft./Second	¾ in. Friction Loss Ft. Water/100 Ft.	¾ in. Friction Loss PSI/100 Ft.	1 in. Velocity Ft./Second	1 in. Friction Loss Ft. Water/100 Ft.	1 in. Friction Loss PSI/100 Ft.	1¼ in. Velocity Ft./Second	1¼ in. Friction Loss Ft. Water/100 Ft.	1¼ in. Friction Loss PSI/100 Ft.	1½ in. Velocity Ft./Second	1½ in. Friction Loss Ft. Water/100 Ft.	1½ in. Friction Loss PSI/100 Ft.	2 in. Velocity Ft./Second	2 in. Friction Loss Ft. Water/100 Ft.	2 in. Friction Loss PSI/100 Ft.	2½ in. Velocity Ft./Second	2½ in. Friction Loss Ft. Water/100 Ft.	2½ in. Friction Loss PSI/100 Ft.	3 in. Velocity Ft./Second	3 in. Friction Loss Ft. Water/100 Ft.	3 in. Friction Loss PSI/100 Ft.
1	1.13	2.08	0.90	0.63	0.51	0.22																		
2	2.26	4.16	1.80	1.26	1.02	0.44	0.77	0.55	0.24	0.44	0.14	0.06	0.33	0.07	0.03									
5	5.64	23.44	10.15	3.16	5.73	2.48	1.93	1.72	0.75	1.11	0.44	0.19	0.81	0.22	0.09	0.49	0.066	0.029	0.30	0.038	0.016	0.22	0.015	0.007
7	7.90	43.06	18.64	4.43	10.52	4.56	2.72	3.17	1.37	1.55	0.81	0.35	1.13	0.38	0.17	0.69	0.11	0.048	0.49	0.051	0.023	0.31	0.021	0.009
10	11.28	82.02	35.51	6.32	20.04	8.68	3.86	6.02	2.61	2.21	1.55	0.67	1.62	0.72	0.31	0.98	0.21	0.091	0.68	0.09	0.039	0.44	0.03	0.013
15				9.48	42.46	18.39	5.79	12.77	5.53	3.31	3.28	1.42	2.42	1.53	0.66	1.46	0.45	0.19	1.03	0.19	0.082	0.66	0.07	0.030
20	0.51	0.03	0.013	12.65	72.34	31.32	7.72	21.75	9.42	4.42	5.59	2.42	3.23	2.61	1.13	1.95	0.76	0.33	1.37	0.32	0.14	0.88	0.11	0.048
25	0.64	0.04	0.017				9.65	32.88	14.22	5.52	8.45	3.66	4.04	3.95	1.71	2.44	1.15	0.50	1.71	0.49	0.21	1.10	0.17	0.074
30	0.77	0.06	0.026	0.49	0.02	0.009	11.58	46.08	19.95	6.63	11.85	5.13	4.85	5.53	2.39	2.93	1.62	0.70	2.05	0.68	0.29	1.33	0.23	0.10
35	0.89	0.08	0.035	0.57	0.03	0.013				7.73	15.76	6.82	5.66	7.36	3.19	3.41	2.15	0.93	2.39	0.91	0.39	1.55	0.31	0.13
40	1.02	0.11	0.048	0.65	0.03	0.013				8.84	20.18	8.74	6.47	9.43	4.08	3.90	2.75	1.19	2.73	1.16	0.50	1.77	0.40	0.17
45	1.15	0.13	0.056	0.73	0.04	0.017	6 in.			9.94	25.10	10.87	7.27	11.73	5.08	4.39	3.43	1.49	3.08	1.44	0.62	1.99	0.50	0.22
50	1.28	0.16	0.069	0.81	0.05	0.022	0.56	0.02	0.009	11.05	30.51	13.21	8.08	14.25	6.17	4.88	4.16	1.80	3.42	1.75	0.76	2.21	0.60	0.26
60	1.53	0.22	0.095	0.97	0.07	0.030	0.67	0.03	0.013				9.70	19.98	8.65	5.85	5.84	2.53	4.10	2.46	1.07	2.65	0.85	0.37
70	1.79	0.30	0.13	1.14	0.10	0.043	0.79	0.04	0.017							6.83	7.76	3.36	4.79	3.27	1.42	3.09	1.13	0.49
75	1.92	0.34	0.15	1.22	0.11	0.048	0.84	0.05	0.022							7.32	8.82	3.82	5.13	3.71	1.61	3.31	1.28	0.55
80	2.05	0.38	0.16	1.30	0.13	0.056	0.90	0.05	0.022							7.80	9.94	4.30	5.47	4.19	1.81	3.53	1.44	0.62
90	2.30	0.47	0.20	1.46	0.16	0.069	1.01	0.06	0.026	8 in.						8.78	12.37	5.36	6.15	5.21	2.26	3.98	1.80	0.78
100	2.56	0.58	0.25	1.62	0.19	0.082	1.12	0.08	0.035	0.65	0.03	0.012				9.75	15.03	6.51	6.84	6.33	2.74	4.42	2.18	0.94
125	3.20	0.88	0.38	2.03	0.29	0.125	1.41	0.12	0.052	0.81	0.035	0.015							8.55	9.58	4.15	5.52	3.31	1.43
150	3.84	1.22	0.53	2.44	0.40	0.17	1.69	0.16	0.069	0.97	0.04	0.017							10.26	13.41	5.81	6.83	4.63	2.00
175	4.48	1.63	0.71	2.84	0.54	0.235	1.97	0.22	0.096	1.14	0.055	0.024	10 in.									7.73	6.16	2.67
200	5.11	2.08	0.90	3.25	0.69	0.30	2.25	0.28	0.12	1.30	0.07	0.030	0.82	0.027	0.012							8.83	7.88	3.41
250	6.40	3.15	1.36	4.06	1.05	0.45	2.81	0.43	0.19	1.63	0.11	0.048	1.03	0.035	0.015							11.04	11.93	5.17
300	7.67	4.41	1.91	4.87	1.46	0.63	3.37	0.60	0.26	1.94	0.16	0.069	1.23	0.05	0.022	12 in.								
350	8.95	5.87	2.55	5.69	1.95	0.85	3.94	0.79	0.34	2.27	0.21	0.091	1.44	0.065	0.028	1.01	0.027	0.012						
400	10.23	7.52	3.26	6.50	2.49	1.08	4.49	1.01	0.44	2.59	0.27	0.12	1.64	0.09	0.039	1.16	0.04	0.017						
450				7.31	3.09	1.34	5.06	1.26	0.55	2.92	0.33	0.14	1.85	0.11	0.048	1.30	0.05	0.022						
500				8.12	3.76	1.63	5.62	1.53	0.66	3.24	0.40	0.17	2.05	0.13	0.056	1.45	0.06	0.026						
750										4.86	0.85	0.37	3.08	0.28	0.12	2.17	0.12	0.052						
1000										6.48	1.45	0.63	4.11	0.48	0.21	2.89	0.20	0.087						
1250													5.14	0.73	0.32	3.62	0.31	0.13						
1500													6.16	1.01	0.44	4.34	0.43	0.19						
2000																5.78	0.73	0.32						
2500																7.23	1.11	0.49						

E6Pro 2HP Pool

BRANCH & TRUNK

FLUSHP PUMP

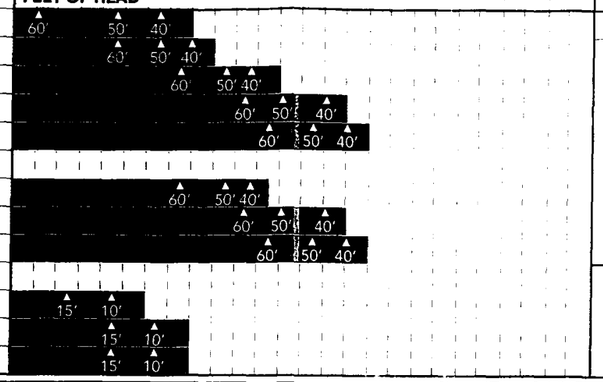
- Powerful, efficient, compact high head pump
- Enlarged trap basket for increased debris holding capacity
- Ergonomic Cam-Lock Lid with easy to read aligning indicators
- Comes complete with 2" x 2½" quick-connect unions
- Ideal for in-floor cleaning, spa-jet boosters and solar systems

Full Rated		Up Rated		Max Load Amps		
Model	HP	Model	HP	115V	208V-230V	460V
PHPF .50	.5	PHPM .75	.75	10.8	5.4	
PHPF .75	.75	PHPM 1.0	1	14.2	7.1	
PHPF 1.0	1	PHPM 1.5	1.5	16.0	8.0	
PHPF 1.5	1.5	PHPM 2.0	2	22.4	11.2	
PHPF 2.0	2	PHPM 2.5	2.5		11.5	
2-Speed Pumps - High Speed						
PHPF 1.0-2	1	PHPM 1.5-2	1.5		7.2	
PHPF 1.5-2	1.5	PHPM 2.0-2	2		10.0	
PHPF 2.0-2	2	PHPM 2.5-2	2.5		11.0	
2-Speed Pumps - Low Speed						
PHPF 1.0-2	.16	PHPF 1.5-2	.16		3.0	
PHPF 1.5-2	.25	PHPF 2.0-2	.25		3.5	
PHPF 2.0-2	.33	PHPF 2.5-2	.33		4.0	

GPM at Various Feet of Head — Gallons Per Minute

20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260

FEET OF HEAD



Pipe Capacity in Gallons	Pipe Size 1-25'	Pipe Size 26-50'	Pipe Size 51-100'	Cartridge Filters (smallest cartridge filter that can be used)	D.E. Filter	Sand Filter

Turnover Rate

TDH	6 hr	8 hr	Suc.	Disc.	Suc.	Disc.	Suc.	Disc.	CV/CL	CS	DEV	SFTM	JS-SM
55'	15,000	20,000	1.5"	1.5"	1.5"	1.5"	2"	2"	340	100	48	22"/25"	30"
60'	18,000	24,000	2"	2"	2"	2"	2"	2"	340	100	48	22"/25"	30"
	28,800	38,400	2"	2"	2"	2"	2.5"	2.5"	340	100	48	25"	30"
	39,600	52,800	2"	2"	2.5"	2.5"	3"	3"	340	150	60	N/A	N/A
	45,000	60,000	2.5"	2.5"	2.5"	2.5"	3"	3"	460	150	60	N/A	N/A
	28,800	38,400	2"	2"	2"	2"	2.5"	2.5"	340	100	48	25"	30"
	39,600	52,800	2"	2"	2.5"	2.5"	3"	3"	340	150	60	N/A	N/A
	45,000	60,000	2.5"	2.5"	2.5"	2.5"	3"	3"	460	150	60	N/A	N/A

Always size pump at High Speed

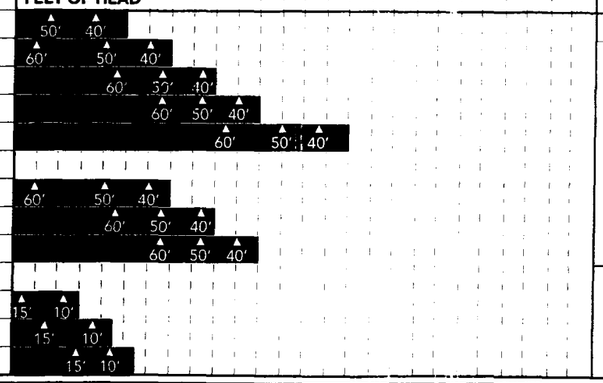
FLOPRO™ SERIES PUMP

- Medium-head, high-flow pump in an ultra compact body. Excellent choice for small equipment areas.
- Adjustable base allows for easy direct replacement of Hayward® Super Pump® or Pentair® WhisperFlo® and SuperFlo® pump.
- Ergonomic Cam-Lock lid with easy alignment indicators.
- Equipped with 2" unions.

Model	HP	Model	HP	115V	208V-230V	460V
		Up Rated				
FHPM.75	.75			10.8	5.4	
FHPM1.0	1			14.2	7.1	
FHPM1.5	1.5			16	8	
FHPM2.0	2			22.4	11.2	
FHPM2.5	2.5				11.5	
2-Speed Pumps - High Speed						
FHPM1.0-2	1				7.1	
FHPM1.5-2	1.5				8	
FHPM2.0-2	2				11.2	
2-Speed Pumps - Low Speed						
FHPM1.0-2	.16				2.3	
FHPM1.5-2	.25				3	
FHPM2.0-2	.33				3.5	

20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260

FEET OF HEAD



TDH	6 hr	8 hr	Suc.	Disc.	Suc.	Disc.	Suc.	Disc.	CV/CL	CS	DEV	SFTM	JS-SM
40'	16,200	21,600	1.5"	1.5"	1.5"	1.5"	2"	2"	340	100	N/A	22"/25"	30"
50'	18,000	24,000	2"	2"	2"	2"	2.5"	2.5"	340	100	48	22"/25"	30"
	27,360	36,480	2"	2"	2.5"	2.5"	2.5"	2.5"	340	100	48	22"/25"	30"
	34,560	46,080	2.5"	2.5"	2.5"	2.5"	2.5"	2.5"	340	100	48	N/A	30"
	46,080	61,440	3"	3"	3"	3"	4"	4"	340	150	60	N/A	N/A
	28,800	38,400	2"	2"	2"	2"	2.5"	2.5"	340	100	48	22"/25"	30"
	39,600	52,800	2"	2"	2.5"	2.5"	3"	3"	340	150	60	25"	30"
	45,000	60,000	2.5"	2.5"	2.5"	2.5"	3"	3"	460	150	60	N/A	30"

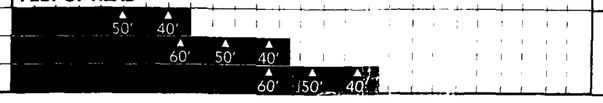
Always size pump at High Speed

WATER FEATURE PUMP

Model	GPM	115V	230V		
WFTR80	80	10.8	5.4		
WFTR120	120	16	8		
WFTR160	160		11.5		

20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260

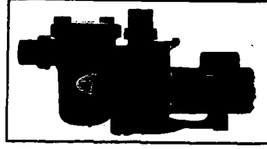
FEET OF HEAD



TDH	6 hr	8 hr	Suc.	Disc.	Suc.	Disc.	Suc.	Disc.	CV/CL	CS	DEV	SFTM	JS-SM
40'			2"	2"	2"	2"	2.5"	2.5"	340	100	48	25"	30"
			3"	2.5"	3"	2.5"	3"	3"	400	150	60	N/A	N/A
			3"	3"	3"	3"	4"	3"	N/A	N/A	N/A	N/A	N/A

- High-flow, medium-head pump.
- Designed to conserve energy and lower operating costs.
- Ergonomic cam-lock lid with easy to read alignment indicators.
- Equipped with 2½" x 3" quick-connect unions

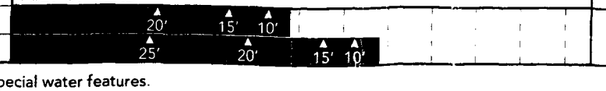
WATERFALL PUMP



Model	GPM	115V	230V		
SWF1125	125	9.6	4.8		
SWF185	185	12	6		

20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260

FEET OF HEAD



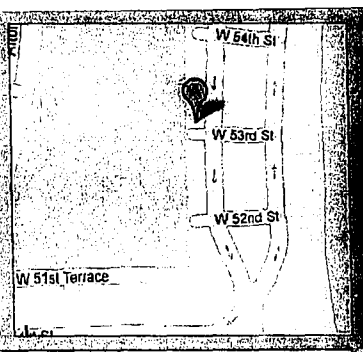
TDH	6 hr	8 hr	Suc.	Disc.	Suc.	Disc.	Suc.	Disc.	CV/CL	CS	DEV	SFTM	JS-SM
15'			2.5"	2.5"	2.5"	2.5"	3"	2.5"	N/A	N/A	N/A	N/A	N/A
			3"	3"	3"	3"	4"	3"	N/A	N/A	N/A	N/A	N/A

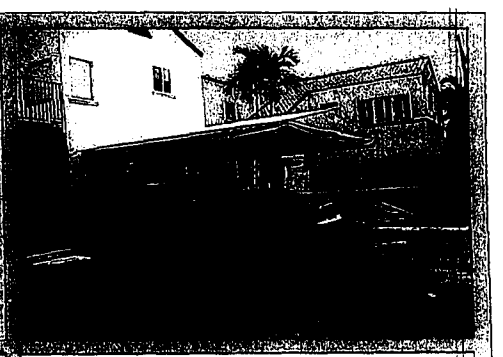
- Specifically designed for high-flow, low pressure applications and other special water features.
- Designed to be 60% quieter and uses less energy than standard pool pumps.
- Ergonomic cam-lock lid with easy to read alignment indicators.
- Equipped with 2½" x 3" quick-connect unions

Recommended velocity for sch 40 pvc rigid pipe:
– 8 ft. sec suction
-- 10 ft. sec discharge

Ordered By:

LAW OFFICES OF
LAWRENCE H. FEDER
ATTORNEY AT LAW
3900 HOLLYWOOD BLVD. SUITE 103
HOLLYWOOD, FLORIDA 33021
954-962-5571



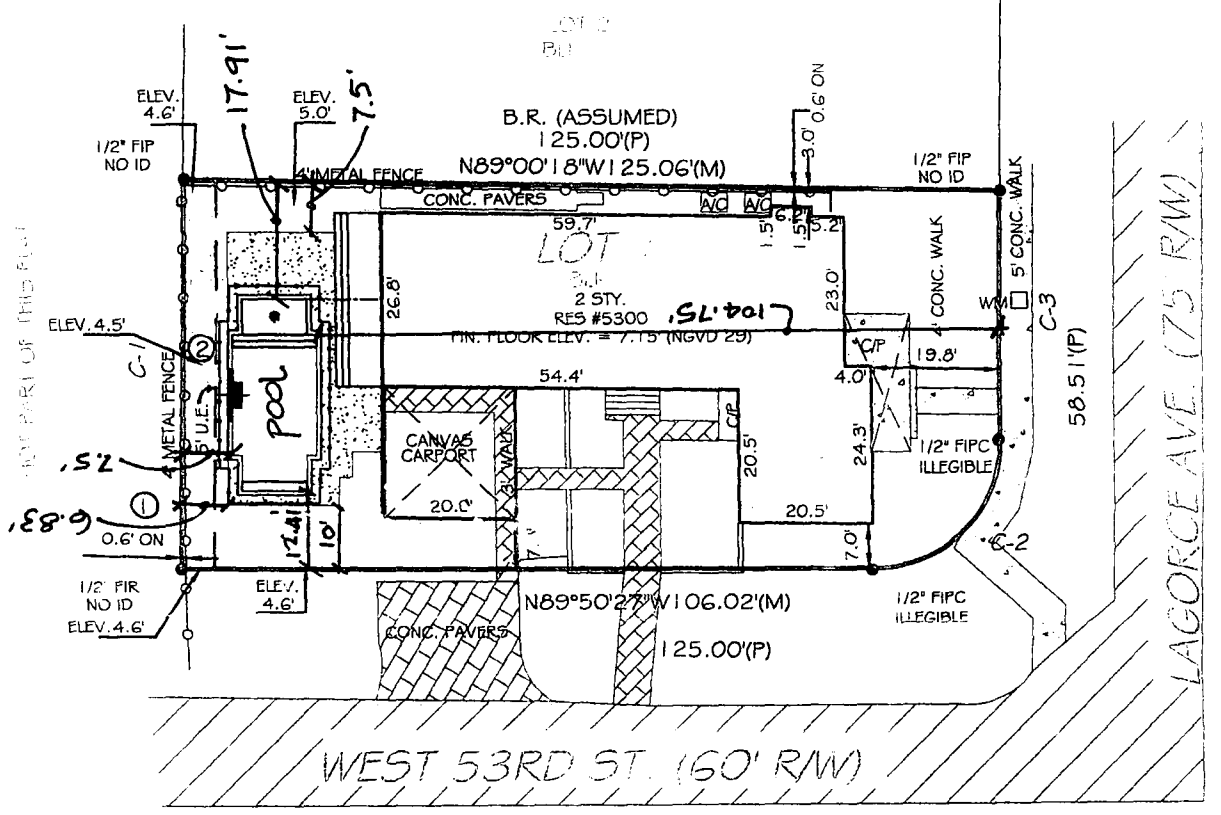


PROPERTY ADDRESS: 5300 LAGORCE DRIVE MIAMI BEACH, Florida 33140

SURVEY NUMBER: 1107.0896

FIELD WORK DATE: 7/14/2011 REVISION DATE(S): (rev.0 7/15/2011)

1107.0896
BOUNDARY SURVEY
MIAMI-DADE COUNTY



C-1	C-2	C-3
R= 7462.00'(P&M)	R= 20.00'(P&M)	R= 7337.00'(P&M)
L= 60'(P)60.26'(M)	L= 30.83'(M)	L= 38.71'(M)
Δ =00°27'39"(P) 00°27'46"(M)	Δ =88°19'39"(M)	Δ =00°18'08"(M)
CHORD = 60.00'(P) 60.26'(M) S01°27'44"W(M)	CHORD = 27.87'(M) N45°07'25"E(M)	CHORD = 38.71'(M) N01°12'11"E(M)

NOTE:
FENCE OWNERSHIP NOT DETERMINED

I hereby certify that this sketch of Survey of the hereon described property has been made under my direction, and to the best of my knowledge and belief, it is a true and accurate representation of a survey that meets the minimum technical standards set forth by the Florida Board Of Professional Land Surveyors as described in Chapter 5J-17 of the Florida Administrative Code.

MARK A. JOHNSON LICENSE NUMBER 6572 STATE OF FLORIDA PROFESSIONAL SURVEYOR & MAPPER

Mark A. Johnson
State of Florida Professional Surveyor and Mapper
License No. 6572

30 0 15 30
GRAPHIC SCALE (In Feet)
1 inch = 30' ft.

N

Use of This Survey for Purposes other than Intended, Without Written Verification, will be at the User's Sole Risk and Without Liability to the Surveyor.
Nothing hereon shall be Construed to Give ANY Rights or Benefits to Anyone Other than those Certified.

POINTS OF INTEREST: 1. FENCE INTO EASEMENT. 2: WOOD DECK INTO EASEMENT.

FLOOD INFORMATION:
By performing a search at www.fema.gov, the property appears to be located in zone AE (with a Base Flood Elevation of 8). This Property was found in CITY OF MIAMI BEACH, community number 120651, dated 09/11/09.

CLIENT NUMBER:

DATE: 7/15/2011

BUYER: MATTHEW SHORE AND SARI SHORE

SELLER: MATTHEW SHORE AND SARI SHORE

CERTIFIED TO: MATTHEW SHORE AND SARI SHORE

This is page 1 of 2 and is not valid without all pages.

EXACTA
Land Surveyors, Inc.
LB# 7337
www.exactaland.com
P (305)668-6169 • F (305)668.6325
12220 Towne Lake Drive, Suite 55 • Ft. Myers, FL 33913

REPORT OF SURVEY 1107.0896

LEGAL DESCRIPTION:

Lot 1, Block 11, BEACH VIEW, according to the plat thereof, as recorded in Plat Book 9, Page 158 of the Public Records of MIAMI-DADE County, Florida.

JOB SPECIFIC SURVEYOR NOTES:

THE BEARING REFERENCE OF NORTH 89 DEGREES 00 MINUTES 18 SECONDS WEST IS BASED ON NORTH LINE OF LOT 1, BLOCK 11, BEACH VIEW, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 9, PAGE 158 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

GENERAL SURVEYOR NOTES:

1. The Legal Description used to perform this survey was supplied by others. This survey does not determine or imply ownership.
2. This survey only shows improvements found above ground. Underground footings, utilities and encroachments are not located on this survey map.
3. If there is a septic tank, or drain field shown on this survey, the location is approximate, and was determined by visual above ground inspection only, and cannot be relied on for accuracy.
4. This survey is exclusively for the use of the parties to whom it is certified.
5. Additions or deletions to this survey map and report by other than the signing party or parties is prohibited without written consent of the signing party or parties.
6. Dimensions are in feet and decimals thereof.
7. Due to varying construction standards, house dimensions are approximate.
8. Any FEMA flood zone data contained on this survey is for informational purposes only. Research to obtain such data was performed at www.fema.gov.
9. All corners marked as set are at a minimum a ½"diameter, 18" iron rebar with a cap stamped LB#7337.
10. If you are reading this survey in an electronic format, the information contained on this document in only valid if this document is electronically signed as specified in Chapter 5J-17.062 (3) of the Florida Administrative Code. The Electronic Signature File related to this document is prominently displayed on the invoice for this survey which is sent under separate cover. Manually signed and sealed logs of all survey signature files are kept in the office of the performing surveyor. If this document is in paper format, it is not valid without the signature and original raised seal of a Florida Licensed Surveyor.
11. Unless otherwise noted, an examination of the abstract of title was NOT performed by the signing surveyor to determine which instruments, if any, are affecting this property.
12. The symbols reflected in the legend and on this survey may have been enlarged or reduced for clarity. The symbols have been plotted at the center of the field location, and may not represent the actual shape or size of the feature.

LEGEND:

BOUNDARY LINE

STRUCTURE

CONRETE BLOCK WALL

CHAIN-LINK or WIRE FENCE

WOOD FENCE

IRON FENCE

EASEMENT

EDGE OF WATER

WOOD

CONCRETE

ASPHALT

BRICK or TILE

WATER

COVERED AREA

BENCH MARK

C/A/C.O.PNT CALCULATED POINT

CENTRAL ANGLE or DELTA

CONTROL POINT

CONCRETE MONUMENT

ELEV CATCH BASIN

ELEVATION

FIRE HYDRANT

MANHOLE

TREE

UTILITY POLE

WELL

SURVEYORS LEGEND

A/C	AIR CONDITIONING
B.R.	BEARING REFERENCE
BLK.	BLOCK
(C)	CALCULATED
CATV	CABLE TV. RISER
C/L	CENTER LINE
CONC.	CONCRETE
C.V.G.	CONCRETE VALLEY GUTTER
C/S	CONCRETE SLAB
CS/W	CONCRETE SIDEWALK
C/P	COVERED PORCH
COR.	CORNER
(D)	DEED
D.H.	DRILL HOLE
D/W	DRIVEWAY
D.F.	DRAIN FIELD
EUB	ELECTRIC UTILITY BOX
ENCL.	ENCLOSURE
E.O.P.	EDGE OF PAVEMENT
E.O.W.	EDGE OF WATER
F/L	FENCE LINE
F/P	FENCE POST
(F)	FIELD
F.F.	FINISHED FLOOR
FPL	FLORIDA POWER ¢ LIGHT
F/DH	FOUND DRILL HOLE
FIRC	FOUND IRON ROD ¢ CAP
FIPC	FOUND IRON PIPE ¢ CAP
FIR	FOUND IRON ROD
FIP	FOUND IRON PIPE
FCM	FOUND CONCRETE MONUMENT
FN¢D	FOUND NAIL ¢ DISC
FN¢TT	FOUND NAIL ¢ TIN TAB
FND.	FOUND
GAR.	GARAGE
ID.	IDENTIFICATION
IR	IRON ROD
IP	IRON PIPE
LB#	LICENSE # - BUSINESS
LS#	LICENSE # - SURVEYOR
L.F	LIGHT POST
(M)	MEASURED
N.¢ D.	NAIL ¢ DISK
N.R.	NON RADIAL
N.T.S.	NOT TO SCALE
O.H.L.	OVERHEAD LINE
OH.	OVERHANG
PK NAIL	PARKER-KALON NAIL
PSM	PROFESSIONAL SURVEYOR AND MAPPER
PLS	PROFESSIONAL LAND SURVEYOR
(P)	PLAT
P/E	POOL EQUIPMENT
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
P.T.	POINT OF TANGENCY
P.C.	POINT OF CURVATURE
P.C.C.	POINT OF COMPOUND CURVATURE
P.R.C.	POINT OF REVERSE CURVATURE
P.C.P.	PERMANENT CONTROL POINT
P.R.M.	PERMANENT REFERENCE MONUMENT
R.	RADIUS or RADIAL
RAD.	RADIAL TIE
RES.	RESIDENCE
R/W	RIGHT OF WAY
SN¢D	SET NAIL ¢ DISC LB#7337
SIRC	SET IRON ROD ¢ CAP L.B.#7337
S/DH	SET DRILL HOLE
SEP.	SEPTIC TANK
SEW.	SEWER
S.W.	SEAWALL
SCR.	SCREEN
STY.	STORY
S.B.L.	SETBACK LINE
S/W	SIDEWALK
S.C.L.	SURVEY CLOSURE LINE
S.T.L.	SURVEY TIE LINE
TEL.	TELEPHONE FACILITIES
T.O.B.	TOP OF BANK
TX	TRANSFORMER
TYP.	TYPICAL
W/C	WITNESS CORNER
W/F	WATER FILTER
WM	WATER METER

A.E.	ANCHOR EASEMENT
C.M.E.	CANAL MAINTENANCE EASEMENT
C.U.E.	COUNTY UTILITY ESMT.
D.E.	DRAINAGE EASEMENT
ESMT.	EASEMENT
I.E./E.E.	INGRESS/ EGRESS ESMT.
L.A.E.	LIMITED ACCESS ESMT.
L.B.E.	LANDSCAPE BUFFER ESMT.
L.M.E.	LAKE or LANDSCAPE MAINTENANCE EASEMENT
M.E.	MAINTENENCE EASEMENT
P.U.E.	PUBLIC UTILITY EASEMENT
R.O.E.	ROOF OVERHANG ESMT.
S.W.E.	SIDEWALK ESMT.
T.U.E.	TECHNOLOGICAL UTILITY EASEMENT
U.E.	UTILITY EASEMENT

ELECTRONIC SIGNATURE:

In order to "Electronically Sign" all of the PDFs sent by STARS, you must use a hash calculator. A free online hash calculator is available at

To Electronically Sign any survey PDF:

1. Save the PDF onto your computer.
2. Use the online tool at

to browse for the saved PDF on your computer.

3. Select the Hash Method as SHA.
4. Click Submit.

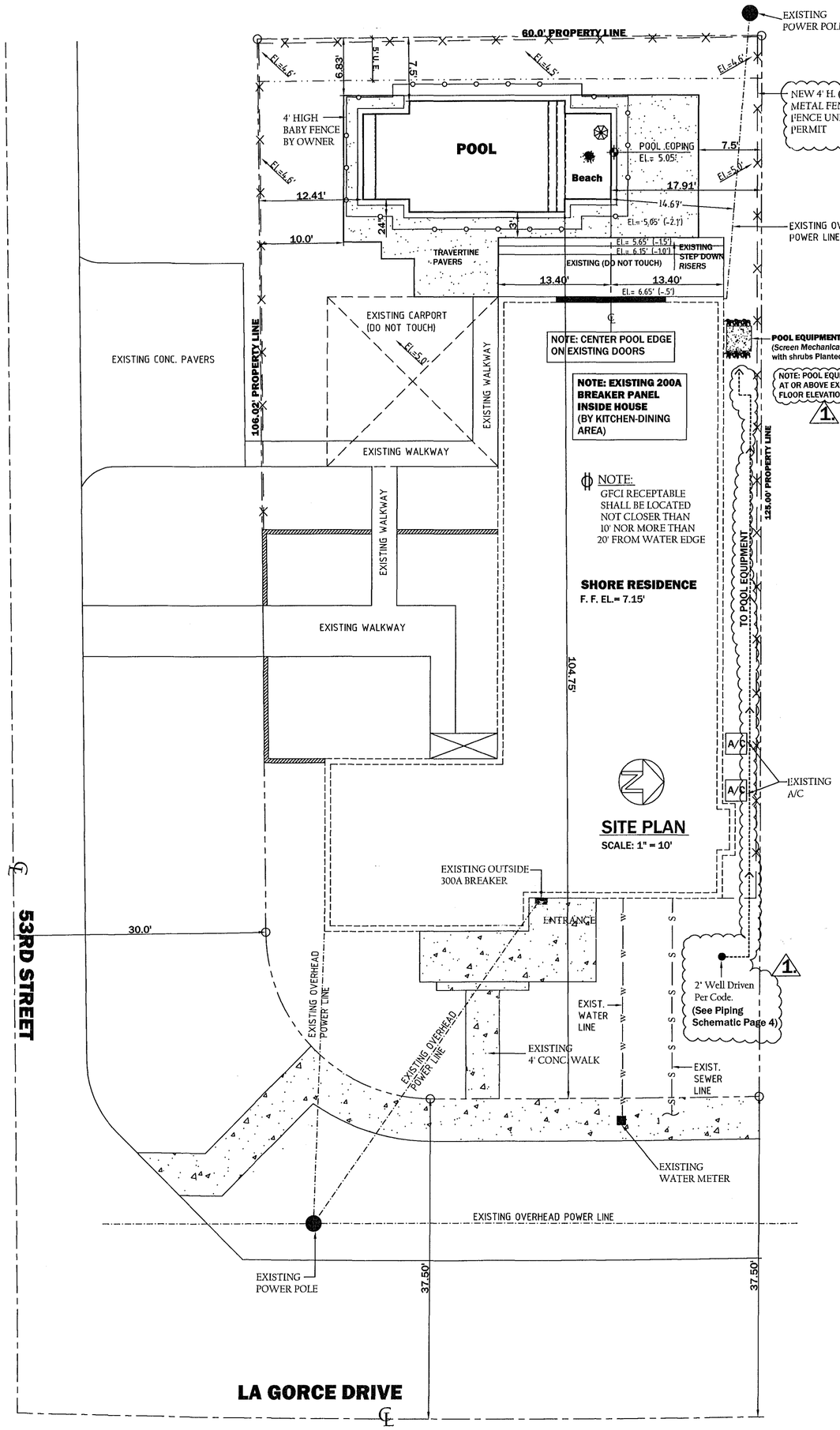
Your PDF is electronically signed if all of the characters in the SHA-1 code submitted by STARS matches the code which is produced by the hash calculator. If they match exactly, your PDF is electronically signed. If the codes do not match exactly, your PDF is not authentic.

PRINTING INSTRUCTIONS:

1. While viewing the survey in Adobe Reader, select the "Print" button under the "File" tab.
2. Select a printer with legal sized paper.
3. Under "Print Range", click select the "All" toggle.
4. Under the "Page Handling" section, select the number of copies that you would like to print.
5. Under the "Page Handling" selection drop down menu, select "None."
6. Uncheck the "Auto Rotate and Center" checkbox.
7. Check the "Choose Paper size by PDF" checkbox.
8. Click OK to print.

TO PRINT IN BLACK + WHITE:

1. In the main print screen, choose "Properties".
2. Choose "Quality" from the options.
3. Change from "Auto Color" or "Full Color" to "Gray Scale".



Phone 305-673-7080 Fax 305-673-7028

THIS PLAN RE-VIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY.

All construction and/or use of equipment in the right-of-way and/or easements, requires a separate Public Works Department permit prior to start of construction.

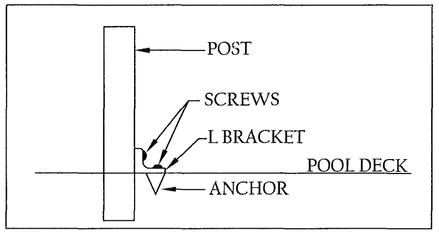
Permit Requirements: Proof of existing sidewalk/swale area conditions (pictures) and/or posting of sidewalk/roadway bonds (Public Works Inspection of the right-of-way will be required prior to final sign-off on the C.C. / C.O., or the release of bonds.)

Engineer's Signature — 8-19-2011

48 HOURS PRIOR TO EXCAVATING CONTRACTOR SHALL CALL FOR LOCATION OF UNDERGROUND UTILITIES
SUNSHINE ONE-CALL 1-800-432-4770
CITY OF MIAMI BEACH 305-673-7080

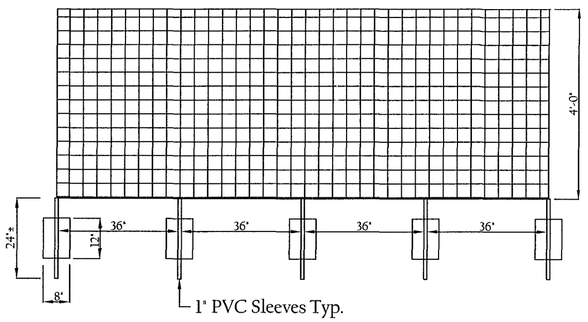
OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:	MD 08/19/11
ZONING:	8/19/11
DRB/HPB:	
CONCURRENCY:	
PLUMBING:	Rick 8/19/11
ELECTRICAL:	8/19/11
MECHANICAL:	08/19/11
FIRE PREVENTION:	
ENGINEERING:	
PUBLIC WORKS:	8-19-2011
STRUCTURAL:	8/19/11
ELEVATOR:	



This Diagram for Baby Fence Requirement, Where one Post must be attached to the deck so that it must be removed with teh use of a pool. We use an L Bracket with a concrete anchor and a screw into the anchor and a screw into the Post. For more information- (Please see Protect - A - Child Sheets)

BABY FENCE DIAGRAM
SCALE: N.T.S. (If Applicabled)



Driven into The Ground 18" to 24" Deep - Spaces 36" Apart Bottom Of Mesh Fence Meets Ground Level Of Grass - PVC Sleeves Secured With Concrete.

MESH FENCE DETAIL
SCALE: N.T.S. (If Applicabled)

NOTICE: In addition to the requirement of this permit there may be additional restrictions applicable to this property that may be found in the Public Records of this County and there may be additional permits required from other government entities such as water management districts, state agencies, or federal agencies. The City of Miami Beach assumes no responsibility for accuracy of or results from these plans which are approved subject to compliance with all Federal, State, and Local Laws, Rules, and Regulations.

SHORE RESIDENCE

Lot: 1 Block: 11
Subdivision: Beach View Sub
Address: 5300 LA Gorce Drive
City: Miami Beach, Fl. 33140

Drawn Date: 07/12/11
Order: 377
Job No.: 11-128
Salesman: John Davidson
Drawn By: M. L.

Revisions:
1. 08.18.11 - Comment Per Bldg. Dept.

Sheet 1 Of 6

VAN KIRK & SONS, INC.
3144 S.W. 13th DRIVE
DEERFIELD BEACH, FL. 33442
PHONE: (954) 755-4402

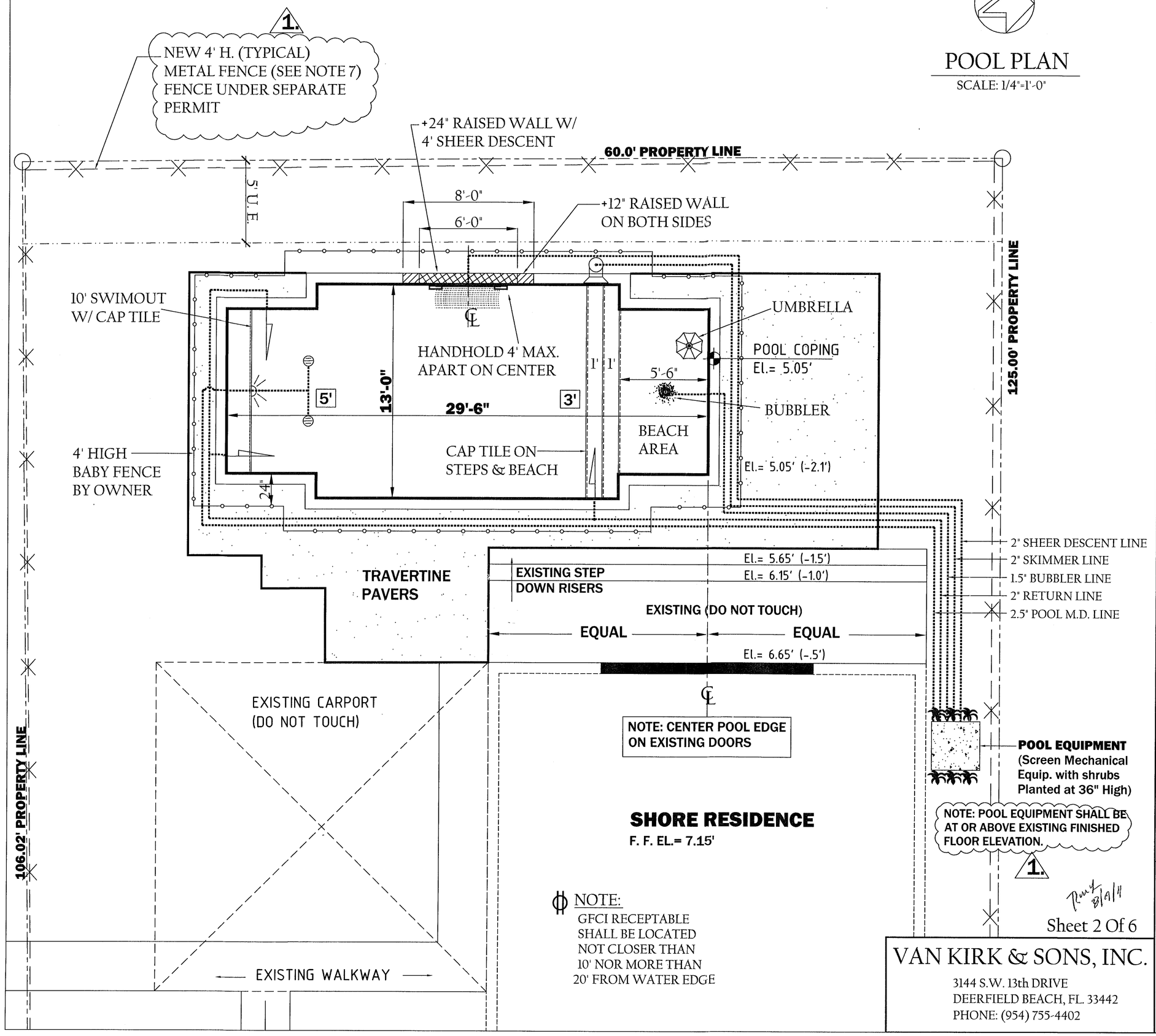
A.F. Webber III, P.E.
Consulting Engineer
P.O. Box 220054
Hollywood, Fl. 33022
Tel. (954) 849-5831
Fl. Reg. No. 22203

Date: 08/18/11

SEE SHEET 2 FOR POOL LAYOUT DIMENSIONS

POOL PLAN

SCALE: 1/4"=1'-0"



Pool Specifications

Pool Size: 13'-0" X 29'-6"
Pool Depth: 3'-0" To 5'-0"
Pool Perimeter: 85 LF
Pool Square Footage: 350 SF
Pool Gallons: 9,444
Turnover Rate: 2.5± hrs
Pool Pump: Jandy FloPro 2 HP FHPM @ 60' TDH/ Head 80 GPM'S
Filter Size: 200 Cartridge
Chlorinator Type: Salt
Gem Finish: V.K. Super Blue
Deck Type: Travertine Pavers Set On Sand
Pool Enclosure: New 4' Metal Fence By Owner
Raised Wall: (2) 1' @ +12" / (1) 6' @ +24" with (1) 4' Sheer Descent and Handholds
Bubbler & Umbrella Holder at Beach Area
Cap Tile On Steps & Beach: Yes
Pool Return: 3
Skimmer: 1
Pool Light: (1) LED
10' Swim Out w/ Cap Tile: Yes
Heater: None
Vac Line: N/A

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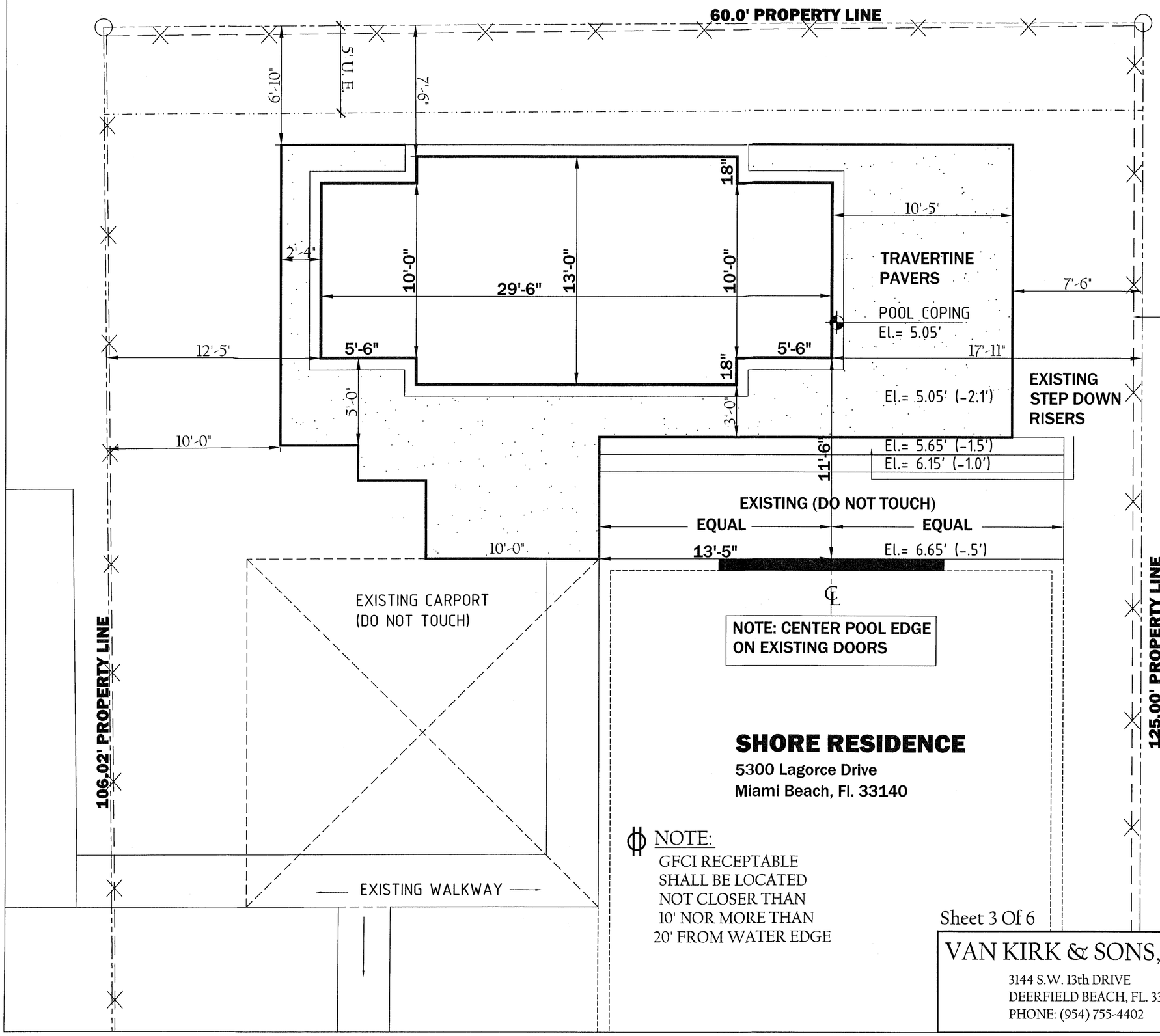
POOL
LAYOUT DIMENSIONS



POOL PLAN

SCALE: 1/4"=1'-0"

1. NEW 4' H. (TYPICAL) METAL FENCE (SEE NOTE 7) FENCE UNDER SEPARATE PERMIT

SHORE RESIDENCE
5300 Lagorce Drive
Miami Beach, Fl. 33140

NOTE:
GFCI RECEPTABLE SHALL BE LOCATED NOT CLOSER THAN 10' NOR MORE THAN 20' FROM WATER EDGE

Sheet 3 Of 6

VAN KIRK & SONS, INC.
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Lot: 1 Block: 11
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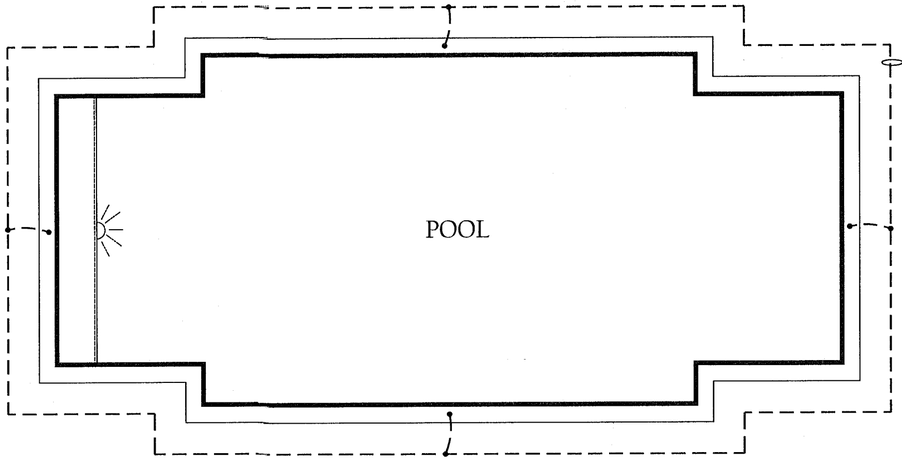
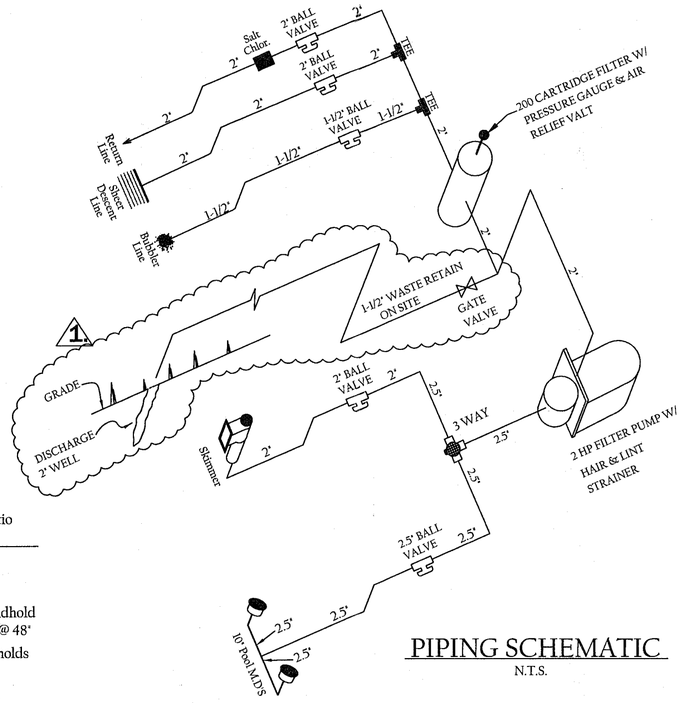
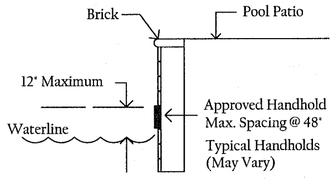


#8 AWG Ground Wire 360° Around Pool Within 18" To 24" Of Water's Edge. Connected To Four Equal Bonding Points To The Pool Steel And To The Equipment.
Bonding Wire Needs To Be 4" To 6" Below Grade And Secured In Place.

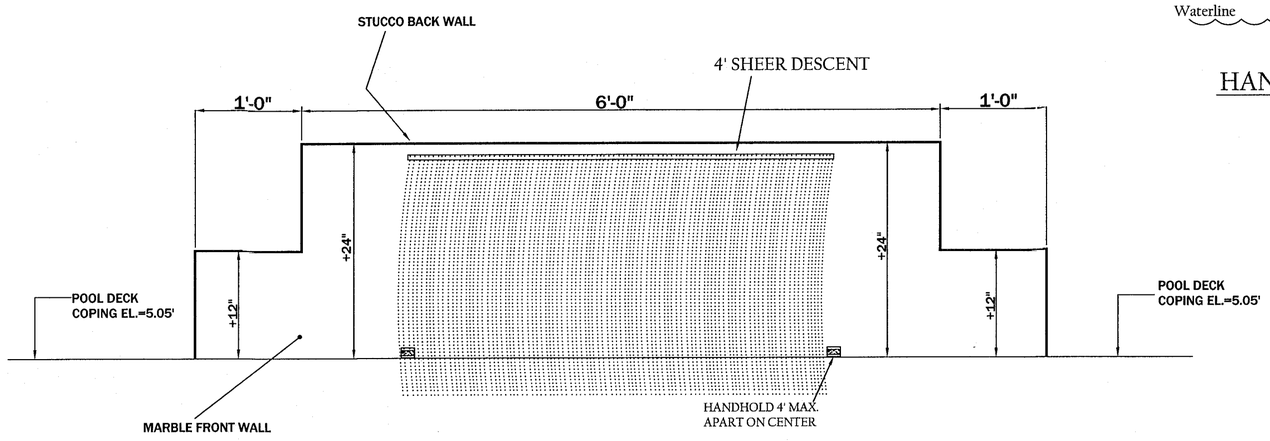
An intentional bond of a minimum conductive surface area of 9 square inches shall be Installed in contact with the pool water as per NEC 680.26 (C)



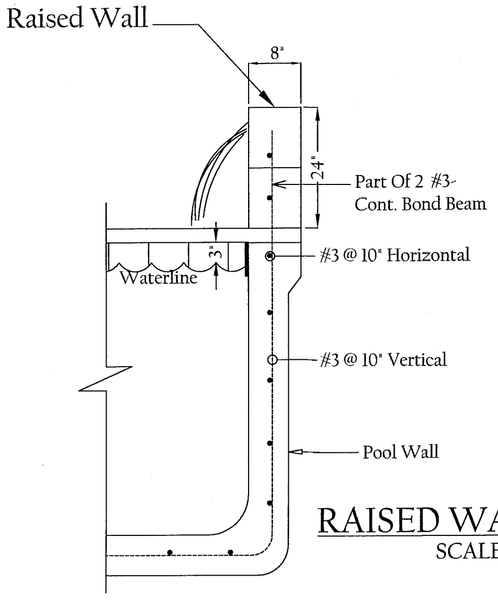
PIPING SCHEMATIC
N.T.S.



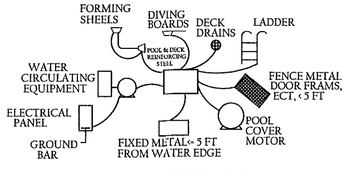
HANDHOLD DETAIL
N.T.S.



RAISED WALL DETAIL
SCALE: 1" = 1'

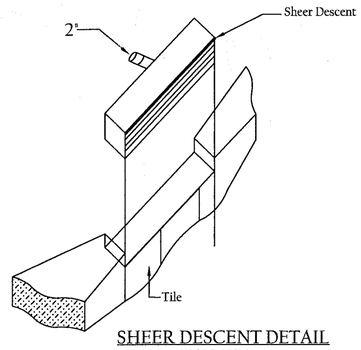


RAISED WALL REINFORCED
SCALE: N.T.S.



COMMON BONDING DETAIL
N.T.S.

COMMON BONDING WIRE PERMITTED TO BE:
* STRUCTURAL REINFORCING STEEL RODS THAT ARE BONDED TOGETHER.
* WALL OF BOLTED OR WELDED METAL POOL.
* SOLID COPPER CONDUCTOR NO. 8 OR LARGER.
* BONDING WIRE SHALL BE 360° AROUND THE POOL AND SPA WITHIN 18" TO 24" OF WATER'S EDGE. CONNECTED TO FOUR EQUAL BONDING POINTS TO THE POOL STEEL AND TO EQUIPMENT.



SHEER DESCENT DETAIL
SCALE: N.T.S.

Sheet 4 Of 6

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Fl. Reg. No. 22203

Date: 08/18/11

GENERAL NOTES AND CONDITIONS

1). ALL FLOR AND WALLS OF POOL TO BE PNEUMATICALLY APPLIED CONC. WITH A MIN. 28 DAYS COMPRESSIVE STRENGTH OF 3000 P.S.I.

2). ALL REINF. STEEL TO CONFORM TO A.S.T.M. A615 GRADE 60.

3). ALL POOL PIPING TO BE SCHEDULE 40 PVC NON THREADED NSF PIPE WITH SOLVENT WELD JOINTS.

4). IN ALL CASES, THE POOL CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT EXISTING STRUCTURES FROM FAILURE BY SHEATHING AND/ OR SHORING, OR OTHER METHODS AS REQUIRED. THE DESIGN ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE SAFETY OF EXISTING STRUCTURES.

5). THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR POOL CONSTRUCTION IN EASEMENT OR REQUIRED SETBACK AREAS. PLOT PLANS NOT PREPARED FROM LEGAL SURVEYS OF THE EXISTING LOT AND RESIDENCE ARE SO INDICATED. POOL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND ESTABLISH LOT LINES. IF NECESSARY, POOL CONTRACTOR AND/OR OWNER SHALL VERIFY SHOWN AND ALL DIMEMSIONS PRIOR TO CONSTRUCTION.

6). CONTRACTOR SHALL ESTABLISH LOCATIONS OF UTILITIES AT THE SITE MINIMUM CLEARANCE DIMENSIONS SHALL BE HELD AND SHALL BE AS REQUIRED BY THE LOCAL REGULATORY AGENCY. IN GENERAL, HOLD A DISTANCE OF 10' FROM OVERHEAD ELECTRIC LINES TO POOL'S WATER EDGE.

7). ALL POOL ENCLOSURES SHALL CONFORM TO R4101.17.1.1 THROUGH 17.1.14 FBC-2007.

8). WHERE POOLS ABUT OR ARE PLACED NEARBY SEA WALL OR BULKHEADS, SPECIAL CARE SHALL BE EMPLOYED. THE WALLS SHALL BE IN GOOD CONDITION, NOT PERMITTING ANY SHIFTING OR REMOVAL, OR LOOSENING OF THE SUPPORTING SOIL AWAY FROM THE POOL. IF THE WALLS DO NOT FULLY CONTAIN THE SOILS BEHIND THEM, THEY SHALL BE REPLACED OR REPAIRED. CONTINUAL MAINTENANCE OF THE WALLS IS REQUIRED BY THE PROPERTY OWNER. WHEN EXCAVATING FOR THE POOL, THE SEA-WALL TIEBACKS SHALL NOT BE CUT. WHEN DEADMEN FALL WITHIN THE EXCAVATION, NOTIFY THE ENGINEER IMMEDIATELY FOR FURTHER INSTRUCTIONS.

9). THE CONTRACTOR SHALL BACKFILL POOL SHELL WITH CAUTION. THE PLUMBING SHALL NOT BE DISTURBED. BACKFILL SHALL BE PERFORMED WITH CLEAN SAND, FREE OF ORGANIC MATERIALS AND SHALL BE PLACED IN 12 INCHES THICK LAYERS. EACH LAYER SHALL BE COMPACTED TO 90% OF THE SOILS MAXIMUM DENSITY BY TAMPERING SOLIDLY. SOILS BELOW THE DECK SHALL BE PLACED IN SIMILAR MANNER.

10). WHERE DECKS ARE INDICATED BY OTHERS, THE DECK DESIGN NOTES SHOWN ON THE TYPICAL SECTION DO NOT APPLY. DECK DESIGN SHALL BE BY OTHERS.

11). DO NOT DRAIN POOL UNDER HIGH GROUND WATER OR STORM CONDITIONS.

12). WARNING! DO NOT EMPTY POOL AFTER CONSTRUCTION FOR REPAIRS OR ANY OTHER REASON BEFORE CONSULTING WITH A POOL OR POOL REPAIR CONTRACTOR. HYDROSTATIC UPLIFT PRESSURES MUST BE ELIMINATED TO PREVENT POOL FROM FLOATING ABOVE GROUND, AND CAUSING DAMAGE TO THE STRUCTURAL INTEGRITY OF THE POOL.

13). THIS PLAN REMAINS THE PROPERTY OF THE DESIGN ENGINEERS. IT IS NOT TRANSFERABLE FROM ONE CONTRACTOR TO ANOTHER WITHOUT THE WRITTEN PERMISSION OF THE DESIGN ENGINEERS.

14). ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE F.B.C., 2007 EDITION, AND ARTICLE 680 N.E.C., 2007 EDITION. ALL BOND WIRES SHALL BE PROTECTED WITH APPROVED MATERIAL. THE CONTRACTOR SHALL INSURE THAT AN ELECTRICAL BONDING INSPECTION IS CALLED FOR AN APPROVED PRIOR TO PLACEMENT OF CONCRETE OVER THE BOND WIRE CONNECTIONS. CONNECTIONS DIRECTLY FROM THE POOL LIGHT TO A TRANSFORMER BOX IS PROHIBITED. ALL METAL PARTS IN THE POOL AREA, IN ADDITION TO ALL METAL DOORS, WINDOWS, SCREENED ENCLOSURES, OR OTHERS ITEMS CONTAINING METAL WITHIN A DISTANCE OF 5 FEET FROM POOL WATER'S EDGE, SHALL ALSO BE GROUNDED.

15). POOL LIGHT TO BE GROUNDED TO COMMON BONDING GRID CONSISTING OF (1) #8 CONTINUOUS COPPER WIRE LOOPED AROUND POOL PERIMETER. LOOP SHALL BE GROUNDED TO PANEL VIA POOL WALL STEEL, DECK REINFORCING,AND PUMP MOTOR CASING.

16). FILTER BACKWASH SHALL COMPLY WITH THE FLORIDA BUILDING CODE 2007 R4101.20.1

17). POOL WATER DISPOSAL TO BE IN ACCORDANCE WITH FLORIDA BUILDING CODE- 2007 R4104 EDITION.

18). TEMPERATURE OF SPA WATER SHALL BE SET SO THAT MAXIMUM WATER TEMPERATURE DOES NOT EXCEED 102 DEGREES FAHRENHEIT.

19). UPON VISUAL INSPECTION SITE SOIL REVEALS A COMBINATION OF UNDISTURBED SAND AND LIMEROCK. A BEARING VALUE OF 2000 PSF HAS BEEN UTILIZED FOR DESIGN PURPOSES.

20). ALL TREADS SHALL HAVE SLIP-RESISTING SURFACES PER ANSI/NSPI-5-2007. 6.1.5

21). ACCESS GATE REQUIREMENTS PER FBC 424.2.17.1.2, R4104.17.1.8, FBC-2007:
- GATES SHALL BE EQUIPPED WITH A SELF-LATCHING & LOCKING DEVICE, 54" (1372 mm) ABOVE FINISH GRADE ELEVETION.
- THE DEVICE SHALL BE PLACED ON THE POOL SIDE OF THE GATE.
- GATES SHALL OPEN OUTWARD AWAY FROM POOL.
- THE GATE SHALL HAVE NO OPENINGS GREATER THAN 1/2" (12.7mm) WITHIN 18" (457mm) OF THE RELEASE MECHANISM.

22). WHERE A WALL OF DWELLING SERVES AS A PART OF THE BARRIER, ONE OF THE FOLLOWING SHALL APPLY. R4101.17.1.9, FBC-2007:

A). ALL DOORS AND WINDOWS PROVIDING DIRECT ACCESS FROM THE HOME TO THE POOL SHALL BE EQUIPPED WITH AN EXIT ALARM COMPLYING WITH UL 2017 THAT HAS A MINIMUM SOUND PRESSURE RATING OF 85 DB AT 10 FEET AND IS EITHER HARDWIRED OR OF THE PLUG-IN TYPE.

B). ALL DOORS PROVIDING DIRECT ACCESS FROM THE HOME TO THE POOL MUST BE EQUIPPED WITH A SELF-CLOSING, SELF-LATCHING DEVICE WITH POSITIVE MECHANICAL LATCHING/LOCKING.

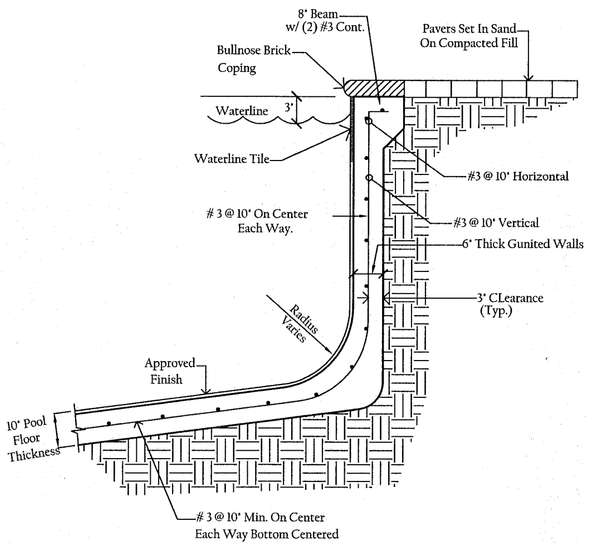
23). THIS POOL HAS BEEN DESIGNED TO ALL APPLICABLE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007, SECTION 424.

24). SOIL STATEMENT:
BASE ON A VISUAL OBSERVATION, THE SOIL ON SITE CONSISTS OF SAND AND ROCK WITH A PRESUMPTIVE BEARING CAPACITY OF 2,000 PSF. THE MINIMUM BEARING CAPACITY REQUIRED FOR THIS PROJECT IS 1,000 PSF. IF OTHER CONDITIONS EXIST, THE CONTRACTOR SHALL NOTIFY THIS ENGINEER FOR INSTRUCTIONS. A LETTER WILL BE PROVIDED UPON EXCAVATION TO VERIFY THE SOIL CONDITION TO THE BUILDING DEPT.

25). ALL CLEANER SUCTION INLETS SHALL BE PROTECTED BY AN APPROVED, PERMANENTLY INSTALLED, SELF-CLOSING FLAPPER ASSEMBLY AS PER FBC-2007 424.2.6.6.5 OR RES. R4101.6.6.5, FBC-2007. PLASTIC PIPE SUBJECT SUNLIGHT EXPOSURE SHALL BE PROTECT AS PER FBC-2007 424.1.6.4 OR RES. R4101.6.4, FBC-2007.

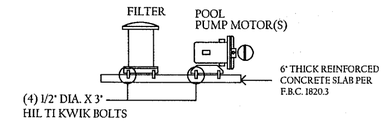
26). TERMITE APPLICATION PER FBC SEC. 1816.1. (IF APPLICABLE)

27). REMOVABLE CHILD BARRIERS MUST BE PLACED SUFFICIENTLY AWAY FROM WATER'S EDGE .SUFFICIENTLY AWAY FROM WATER'S EDGE MEANS NO LESS THAN 22 INCHES (508mm) FROM THE BARRIER TO THE WATER'S EDGE. FBC R4101.17.1.13. ONE END OF A REMOVABLE CHILD BARRIER SHALL NOT BE REMOVABLE WITHOUT THE AID OF TOOLS. FBC R4101.17.1.2. (IF APPLICABLE)



Typical Wall Section

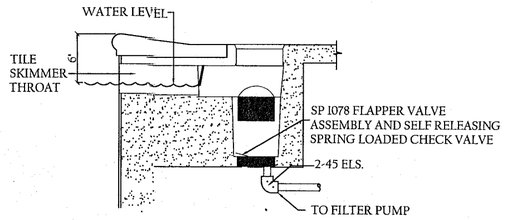
Scale: n.t.s



GENERALD NOTE:
1). POOL MECHANICAL EQUIPMENT ANCHORAGE HAS BEEN DESIGNED TO COMPLY WITH F.B.C. SECT. 301.13
2). ALL EQUIPMENT SHALL BE PLACED ON A SINGLE EQUIPMENT SLAB. SEPARATE SLABS ARE NOT PERMITTED.
3). POOL EQUIPMENT SHALL BE AT OR ABOVE EXISTING FINISHED FLOOR ELEVATION. 1

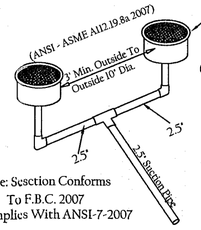
EQUIP. ANCHORING DETAIL

N.T.S



POOL SKIMMER DETAIL

N.T.S.



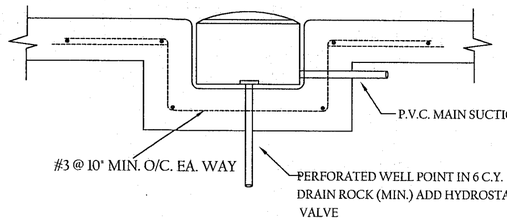
Note: Section Conforms
To F.B.C. 2007
Complies With ANSI-7-2007

10" Dia. Round M.D.'s
(See Additional Spec's Sheet)

(Per ASME/ANSI A112.19.8M-1987, ASME A112.19.8-2007, APSP-7)

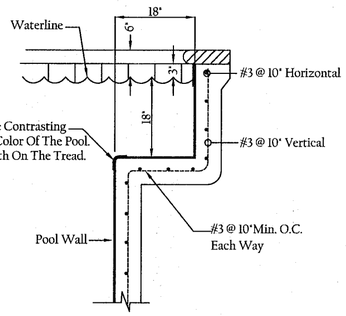
Part Number: Waterway 640-19XXV
Description: Round Tru Flo Drain & Frame
Size: 10"
Open Area: 33.7 in^2
156 GPM @ 1.5 fps
Floor Flow Rate: 200 GPM
Wall Flow Rate: 136 GPM
This product has been tested to ANSI/ASME 112.19.8-2007 (addendum 8a-2008) per § 1404 of the Virginia Graham Baker (VGB 2008) Pool and Spa Safety Act. Certified by: Underwriters Laboratories, Inc., 2929 E. Imperial Highway, Suite 100, Brea, CA 92821-6729.

POOL MAIN DRAIN CONNECTION DETAIL SCALE: N.T.S



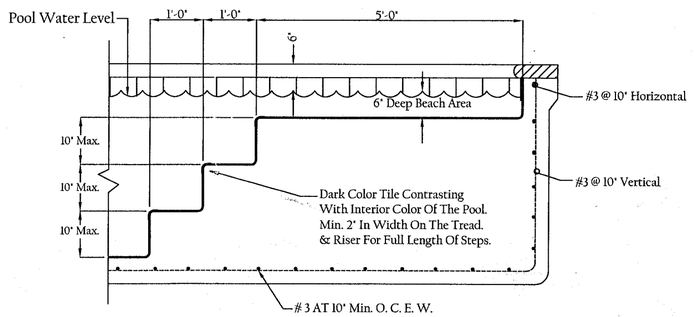
MAIN DRAIN DETAIL

N.T.S.



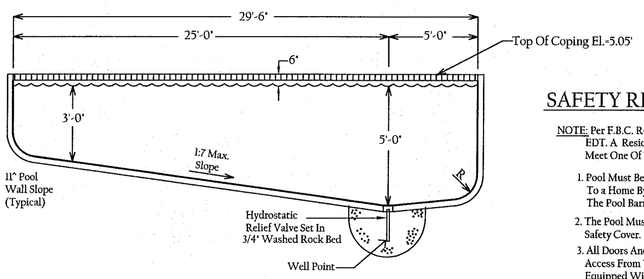
SWIMOUT DETAIL

Scale: 1/2" = 1'-0"



ENTRY STEP DETAIL

Scale: 1/2" = 1'-0"



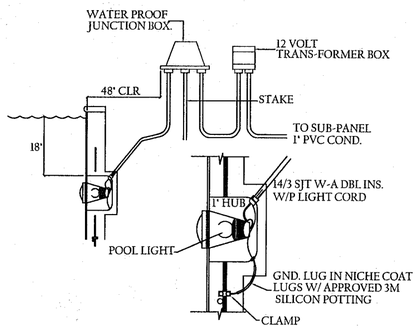
LONGITUDINAL POOL SECTION

N.T.S.

SAFETY REQUIREMENTS

NOTE: Per F.B.C. R4101.17.1 TO R4101.17.3 EDT. A Residential Swimming Pool Must Meet One Of The Below Safety Features:

1. Pool Must Be Isolated From Access To a Home By An Enclosure That Meets The Pool Barrier Req. Of S 515.29
2. The Pool Must Be Equipped w/ Approved Safety Cover.
3. All Doors And Windows Providing Direct Access From The Home To The Pool Must Be Equipped With An Ext Alarm That Has a Min. Sound Pressure Rating Of 85dB At 10' Feet.
4. All Doors And Windows Providing Direct Access From The Home To The Pool Must Be Equipped With a Self-Closing Self-Latching Device With a Release Mechanism Placed No. Lower Than 54" Above The Floor.



WET NICHE LIGHT DETAIL

N.T.S.

Sheet 5 Of 6

VAN KIRK & SONS, INC.
3144 S.W. 13th DRIVE
DEERFIELD BEACH, FL. 33442
PHONE: (954) 755-4402

SHORE RESIDENCE

Lot: 1 Block: 11
Subdivision: Beach View Sub
Address: 5300 LA Gorce Drive
City: Miami Beach, Fl. 33140

Drawn Date: 07/12/11
Order: 377
Job No.: 11-128
Salesman: John Davidson
Drawn By: M. L.

Revisions:
1 08.18.11 - Comment Per Bldg. Dept.

A.F. Webber III, P.E.
Consulting Engineer
P.O. Box 220054
Hollywood, Fl. 33022
Tel. (954) 849-5831
Fl. Reg. No. 22203

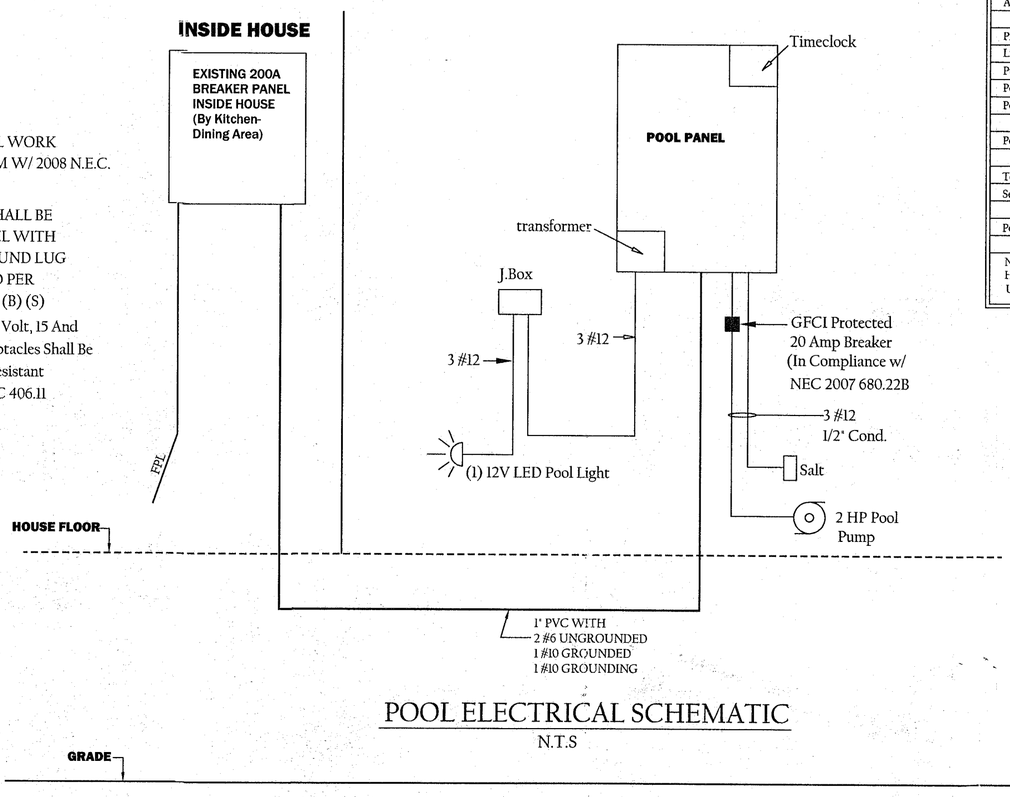
Date: 08/18/11

Panel Schedule pool equipment

Description	#	Breaker Amps	Phase A Load (Amps)	Phase B Load (Amps)	Phase A Load (Amps)	Phase B Load (Amps)	Breaker Amps	#	Description
Unused Space	1	X			1		20	2	Pool Light
Unused Space	3	X				5	20	4	GFCI
Unused Space	5	X			6.2		20	6	Chlorinating pump GFCI breaker
Unused Space	7	X				6.2		8	
Totals			7.2	11.2					
Main Breaker Amps			60	60					
Remaining Capacity			52.8	48.8					

NOTE:

- ALL ELECTRICAL WORK SHALL CONFORM W/ 2008 N.E.C. ARTICLE 680.
- LIGHT NICHE SHALL BE STAINLESS STEEL WITH INTERNAL GROUND LUG AND BE BONDED PER NEC-2008 680.26 (B) (S)
- In 210.52, All 125 Volt, 15 And 20 Ampere Receptacles Shall Be Listed Tamper-resistant Receptacles. NEC 406.11



POOL ELECTRICAL SCHEMATIC

N.T.S

LOAD CALCULATIONS

Description:	Amps	Volts	Watts (kW) Adjusted	Demand Factor	Qty	NEC Article	Unit kW	HP
Clothes Dryer	20.8	240	5.0	100.0%	1	220.82B3	5.0	
Clothes Washer	12.5	120	1.5	100.0%	1	220.82B2	1.5	
Kitchen Small Appliance	25.0	120	3.0	100.0%	2	220.82B2	1.5	
Water Heater	18.8	240	4.5	100.0%	1	220.82B3	4.5	
Oven	16.7	240	4.0	100.0%	1	220.82B3	4.0	
cooktop	2.08	240	5.0	100.0%	1	220.82B3	5.0	
Total:			23.0					
Square foot of house 3w x 2000			6.0				29.0	
First 10kw	41.7	240	10.0	100.0%		220.82B	10.0	
Remaining kw:	31.7	240	7.6	40.0%		220.82B1	10.0	
A/C Cooling Mode	20.0	240	4.8	100.0%	1	220.82C3	4.8	
A/C Cooling Mode	14.2	240	3.4	100.0%	1	220.82C3	3.4	
A/C Cooling Mode	10.8	240	2.6	100.0%		220.82C3	2.6	
Proposed Additions (Pool)								
Light	0.8	120	0.1	100.0%	1	220.83B3	0.1	
Pump Chlorinating	6.2	240	1.5	100.0%	1	220.83B3		2.0
Pool Heat Pump	0.0	240	0.0	100.0%	0	220.83B1	6.5	
Pool Heat Pump								
Pool Sub Totals	7.1	240	1.6					
Total Estimated Load:	125.0	240	30.0					
Service Capacity: (Existing)	200	240	48.0					
Percentage Of Capacity Used:			62.48%					

Notes: NEC 2008 edition used for calculations. NEC 220.30 deleted in 2008 edition
House has two Main service Disconnects. 200A feeds main floor with A/C Unit. 100A feeds upstairs with 1 A/C Unit. This calculation is based on the 200A.

UPLIFT CALCULATIONS

INPUT DATA

Width	13.00'	Deck Elev.	5.05'
Length	29.50'	Flood Elev.	8.00'
Avg. Depth	5'		
Wall Thickness	6"		
Slab Thickness	6"	El. Bottom of Slab	1.05'
Walls	25,500 lbs.	Lifting Head	6.95'
Slab	26,250 lbs.	Deduction for Valve	2.00'
Total Weight	51,750 lbs.	Resulting Buoyancy Head	4.95**
Uplift Force	118,645 lbs.		
Required Slab Thichness	10"		

* Weight of Water over Pool: 2.95 (62.5)(383.5) = 70,708 lbs. Therefore Uplift Force is 47,935 lbs. Increase Slab Thickness to 10". Total Weight is then 47,937 lbs.

SHORE RESIDENCE

Lot: 1 Block: 11
Subdivision: Beach View Sub
Address: 5300 LA Gorce Drive
City: Miami Beach, FL 33140

Drawn Date: 07/12/11
Order: 377
Job No.: 11-128
Salesman: John Davidson
Drawn By: M. L.

Revisions:
1.

A.F. Webber III, P.E.
Consulting Engineer
P.O. Box 220054
Hollywood, Fl. 33022
Tel. (954) 849-5831
Fl. Reg. No. 22203

Date: 08/15/11

Sheet 6 Of 6

VAN KIRK & SONS, INC.
3144 S.W. 13th DRIVE
DEERFIELD BEACH, FL. 33442
PHONE: (954) 755-4402

OFFICE COPY

CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING: 08/19/11

ZONING: 8/19/11

DRB/HPB:

CONCURRENCY:

PLUMBING: 8/19/11

ELECTRIC: 8/17/11 8/19/11

MECHANI... 08/17/11 08/19/11

FIRE PREVE...

ENGINE... ELC-08-19-2011

PUBLIC... 8/17/11 8/19/11

STRU...

ELE...

Phone 305-673-7080 Fax 305-673-7028

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY.

All construction and/or use of equipment in the right-of-way and/or easements, requires a separate Public Works Department permit prior to start of construction.

Permit Requirements: Proof of existing sidewalk/swale area conditions (pictures) and/or posting of sidewalk/roadway bonds
(Public Works Inspection of the right-of-way will be required prior to final sign-off on the C.C. / C.O., or the release of bonds.)

Approved ... Date: ELC 8-19-2011

48 HOURS PRIOR TO EXCAVATING CONTRACTOR SHALL CALL FOR LOCATION OF UNDERGROUND UTILITIES

SUNSHINE ONE-CALL 1-800-432-4770

CITY OF MIAMI BEACH 305-673-7080

B1104758

5360 La Gorce Dr.

OFFICE COPY