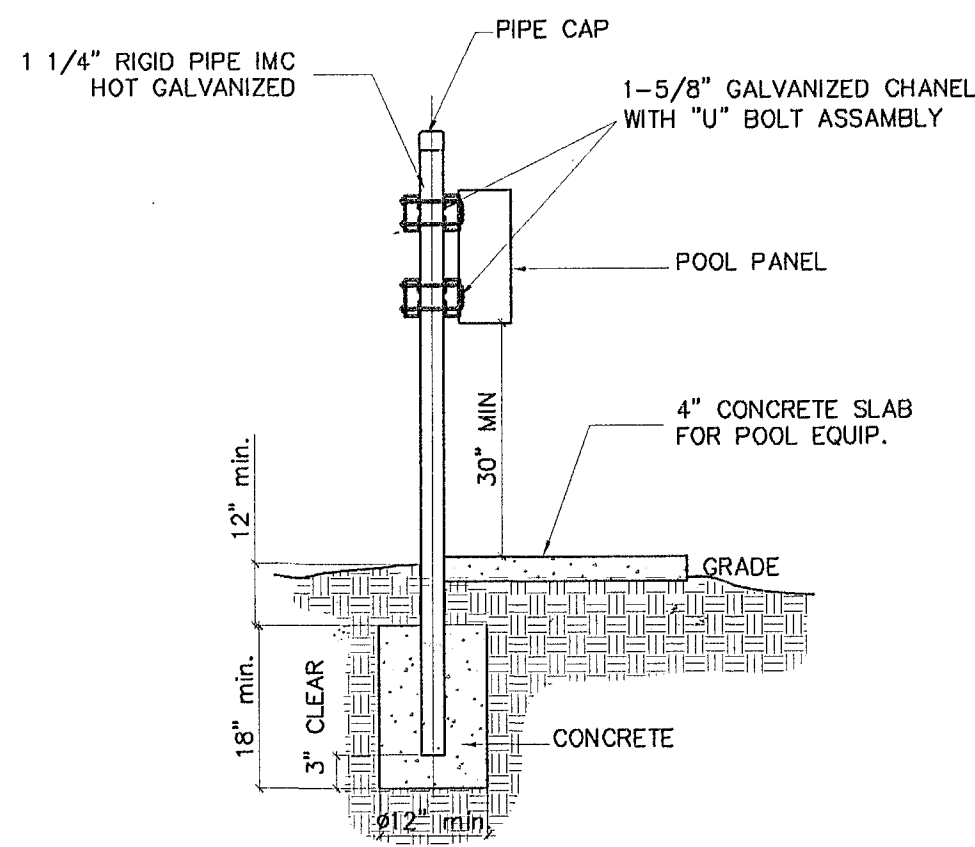
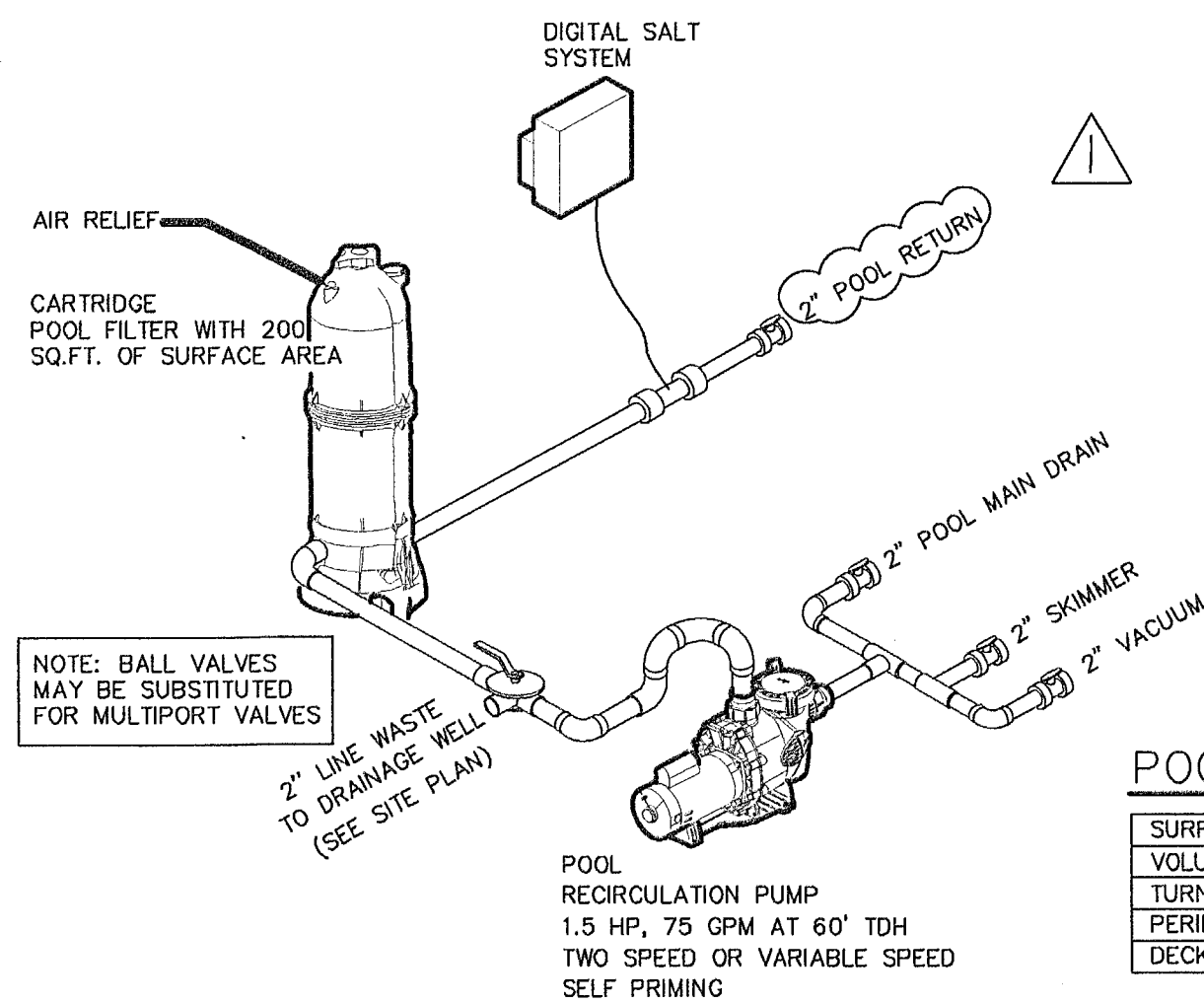


RV1908544



ELECTRICAL PANEL SUPPORT DETAIL
N.T.S.

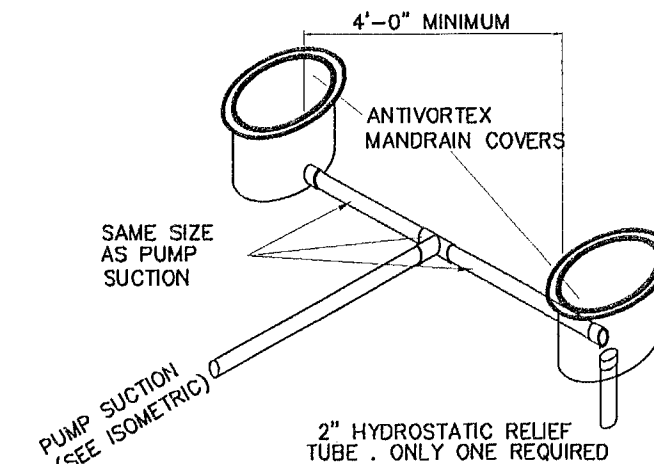


POOL PLUMBING ISOMETRIC
NO SCALE

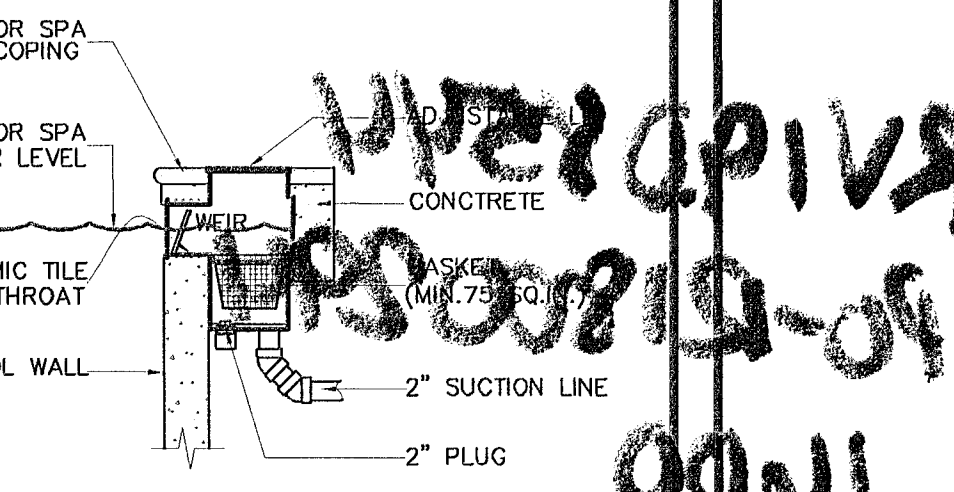
POOL DATA:

SURFACE AREA (SQ.FT.)	390
VOLUME (GALLONS)	8325.21
TURNOVER (HOURS)	2.36
PERIMETER (FEET)	78
DECK AREA (SQ.FT)	198

Approved/Reviewed By: *[Signature]* Date: 1-11-19



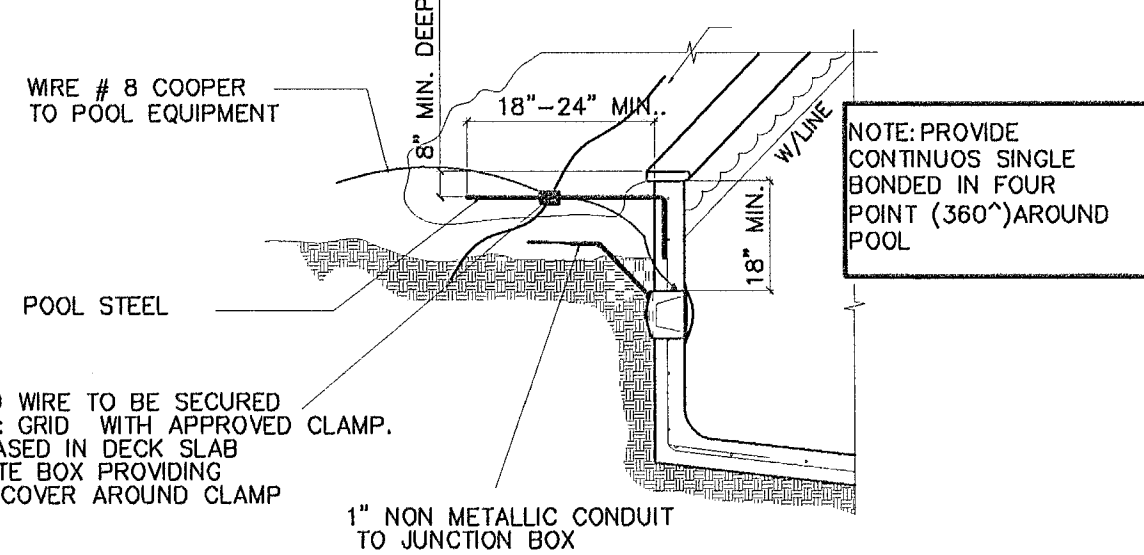
MAINDRAIN DETAIL
NO SCALE



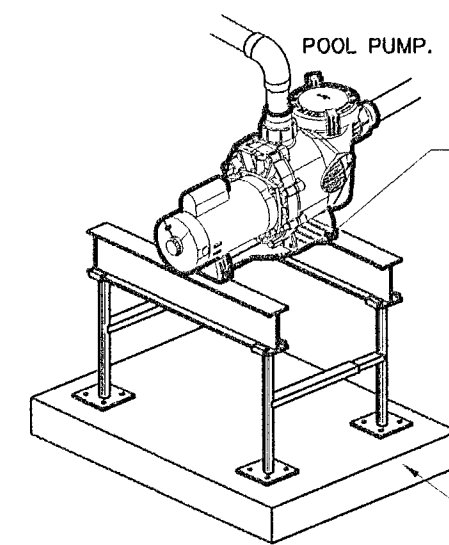
SKIMMER DETAIL
NO SCALE

PLUMBING NOTES:

1. ALL POOL EQUIPMENT PIPING SHALL BE SCHEDULE 40, PVC-PW, NON-THREADED, NSF APPROVED SUPPORTED CONTINUOUSLY ON GROUND OR ON MAXIMUM 4'-0" CENTERS WITH CLEVIS HANGERS.
2. ALL SUCTION PIPING SHALL BE 2" DIAMETER AND ALL PRESSURE PIPING 1-1/2" DIAMETER UNLESS OTHERWISE NOTED.
3. POOL WATER DISPOSAL SHALL BE IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT REQUIREMENTS.
4. ANTI VORTEX MAIN DRAINS SHALL HAVE ITS PLATE SECURELY FASTENED WITH TAMPERPROOF SCREWS.
5. POOL VACUUM SHALL HAVE SPRING LOADED CAP IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.
6. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE-PLUMBING SECTION 309 AS IT PERTAINS TO BUOYANCY.
7. THE WATER VELOCITY THOUGH ALL SUCTION PIPING SHALL BE LESS THAN 8 FEET PER SECOND.
8. THE WATER VELOCITY THROUGH ALL PRESSURE PIPING SHALL BE LESS THAN 10 FEET PER SECOND.
9. ALL PIPING SHALL BE SUITABLE FOR EXPOSURE TO ULTRA VIOLET RADIATION AND NORMAL OPERATING TEMPERATURES.



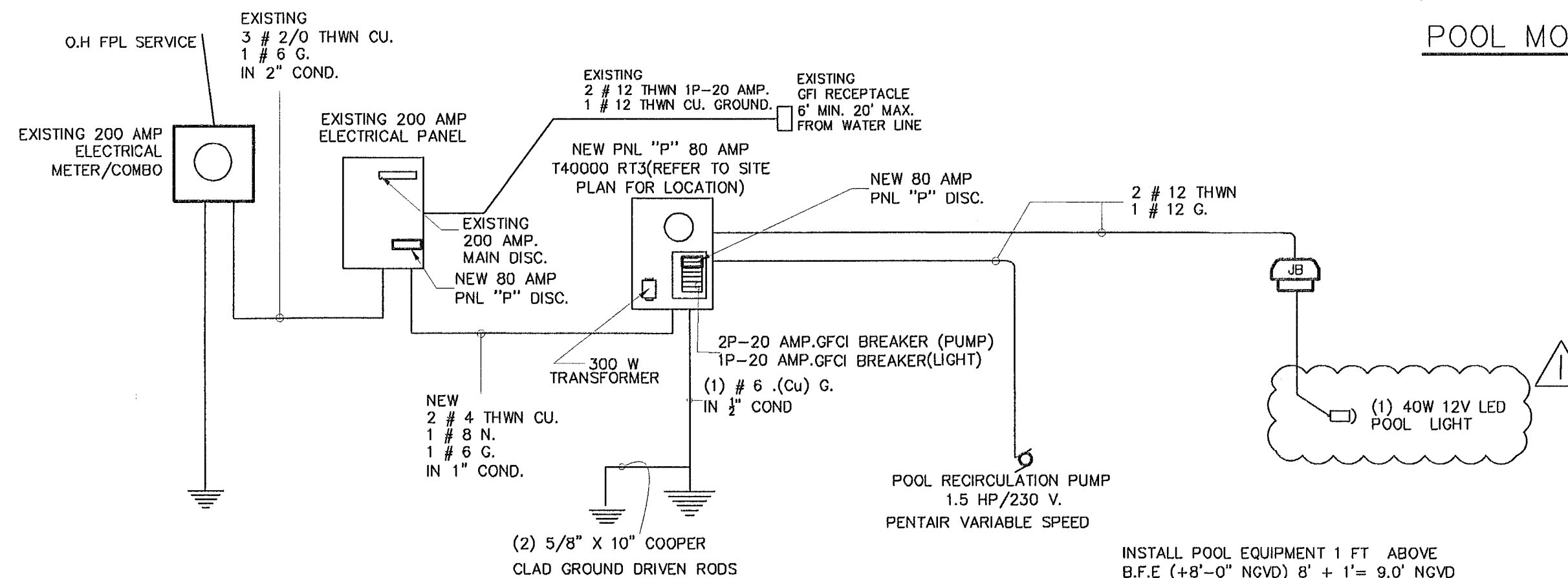
POOL BOND & UNDERWATER LIGHT DETAIL
NO SCALE



POOL MOTOR TYP MOUNTING DETAIL

ELECTRICAL NOTES:

1. ALL POOL ELECTRICAL WORK SHALL BE ACCOMPLISHED IN COMPLIANCE WITH FBC 2017, 6TH EDITION, CHAPTER 42
2. ALL POOL ELECTRICAL WORKS, GROUNDING AND BONDING MUST BE CONFORM WITH THE NEC 2014, ART. 680
3. NO OVERHEAD WIRING SHALL BE LOCATED WITHIN 10'-0" OF POOL'S WATER EDGE.
4. SHOULD THE ELECTRICAL RISER DIAGRAM NOT ACCURATELY DEPICT REQUIRED WORK, A REVISED DRAWING SHALL BE SUBMITTED AND APPROVED SHOWING EXPECTED AS BUILT CONFIGURATION WITH ADDITIONAL SERVICE AND LOAD CALCULATIONS IF NECESSARY.
5. ALL ELECTRICAL EQUIPMENT NOT SUITABLE FOR EXPOSURE TO THE ELEMENTS SHALL BE ENCLOSED IN A WEATHERPROOF CONTAINER ALL PUMPS, HEATERS AND RELATED POOL EQUIPMENT SHOWN ON THESE PLANS ARE SATISFACTORY FOR EXPOSURE TO THE ELEMENTS.
6. RECEPTACLES SHALL BE LOCATED NOT LESS THAN 6 FEET (1829 MM) FROM THE INSIDE WALLS OF A STORABLE POOL, STORABLE SPA OR STORABLE HOT TUB. IN DETERMINING THESE DIMENSIONS, THE DISTANCE TO BE MEASURED SHALL BE THE SHORTEST PATH THAT THE SUPPLY CORD OF AN APPLIANCE CONNECTED TO THE RECEPTACLE WOULD FOLLOW WITHOUT PASSING THROUGH A FLOOR, WALL, CEILING, DOORWAY WITH HINGED OR SLIDING DOOR, WINDOW OPENING, OR OTHER EFFECTIVE PERMANENT BARRIER. (680.34)



ELECTRICAL RISER DIAGRAM

ELECTRICAL PANEL 'P'									
TYPE: T 40000 SERIES					ENCLOSURE: NEMA 3R				
SERVICE: 10, 120/240					LOCATION: SEE PLAN				
MAINS: MAIN LUG					RATING: 100 A, 10 K				
A.I.C.S.: 10000									
AMPS	POLES	TOTAL V.A.	COND. SIZE	WIRE SIZE	DESCRIPTION	WIRE SIZE	COND. SIZE	TOTAL V.A.	POLES
20	1	40	1/2"	12	POOL LIGHTS	12	1/2"	2000	2
20	1	40	1/2"	12	GFCI RECEPTACLE	12	1/2"	2000	2
					SPARE				
					SPARE				
					SPARE				

NOTE: THIS DESIGN IS AN ALTERNATIVE AND/OR EQUIVALENT TO COMPLIANCE WITH N.E.C 2014 ART. 680.26 (B) & (C).

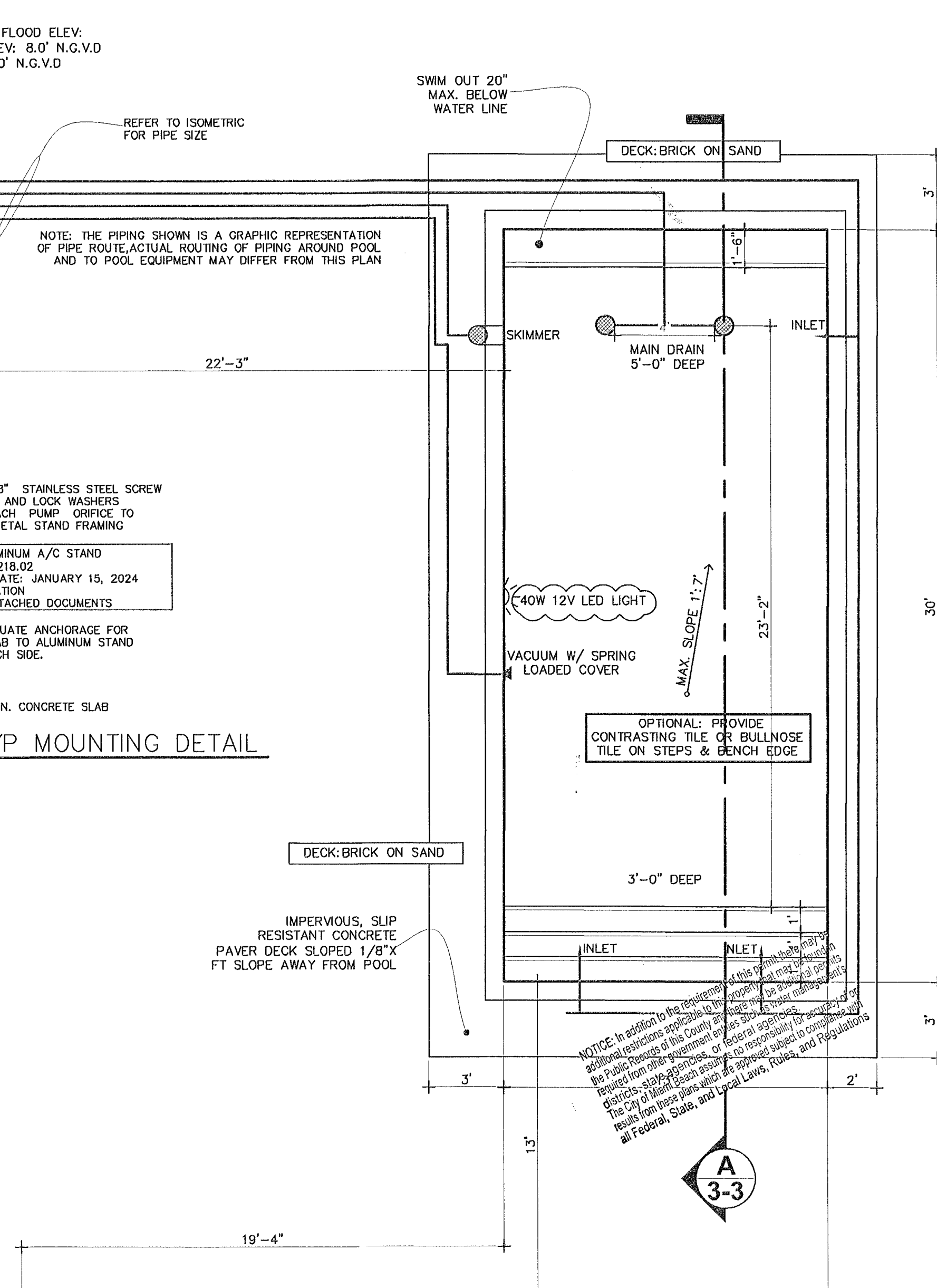
NOTE: PROVIDE CONTINUOUS SINGLE #8 COPPER BONDED IN FOUR POINT(360°) AROUND POOL & SPA

NOTE: PROVIDE 4 #8 COPPER BONDING TAILS(ONE EACH SIDE) CLAMPED TO POOL WALL STEEL FOR DECK BONDING

BOND WIRE SHALL BE SECURED TO POOL STEEL WITH APPROVED CLAMP.

POOL & SPA BOND SCHEMATIC

POOL & SPA BOND SCHEMATIC



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

BUILDING: *[Signature]*
ZONING: *[Signature]*
PLUMBING: *[Signature]*
ELECTRICAL: *[Signature]*
MECHANICAL: *[Signature]*
FIRE PREVENTION: *[Signature]*
FLOOD: *[Signature]*
PUBLIC WORKS: *[Signature]*
STRUCTURAL: *[Signature]*
ELEVATOR: *[Signature]*
ROOFING: *[Signature]*

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

Fernando Morales, P.E.
5201 S.W. 162 Place
Miami, Florida 33185
786-380-9739
License # 51441

REVISIONS

NO.	DATE	DESCRIPTION
1	01/07/19	

SHEET NO:
2 OF 4

11-28091V8

RV19D8544
PO-R1800294
1600
Cleveland
RD

11-28091V8

Residential Swimming Pool, Spa or Hot Tub Safety Act Notice of Requirements

Every swimming pool shall be protected by a barrier that prevents accidental or unauthorized entry into the water from adjacent properties, public right of way, and the interior of the dwelling(s).

I (we) acknowledge that a new swimming pool, spa, or hot tub that has a water depth of 24" or more, will be constructed or installed at 1600 Cleveland Rd and hereby affirm that at least one of the following methods below will be used to meet the requirements of Florida Statute (FS) Chapter 515, the City of Miami Beach (CMB) Ordinance Sec 142-1133, the Miami Dade County (MDC) Ordinance Section 33.12, the Florida Building Residential (FBCR) Code Section 4501.17.1, and the Florida Building Code Building (FBCB) Code Section 454.2 (Private Swimming Pools). The Pool Barrier must be 48" high with a sturdy self-closing, self-latching, lockable gate that opens outward and away from the pool, compliant with FBCR 4501.17.1.

Please initial next to AT LEAST ONE METHOD below to be used. Submit Manufacturer Specifications for any of the methods selected:

 The pool will be equipped with an approved safety pool cover that complies with ASTM F1346. FBCR 4501.17. (This method requires an additional 48" high barrier around the property, and when provided, gate(s) compliant with FBCR 4501.17.1.8.)

 A Mesh Safety barrier in compliance with FBCR 4501.17.1.15 & 4501.17 located around the pool perimeter, with a 48" high sturdy self-closing, self-latching, lockable gate compliant with FBCR 4501.17.1.8. One end of the child barrier shall not be removable without the aid of tools per FBCR 4501.17.1.2. The barrier must be placed no less than 20 inches from the barrier to the water's edge per FBCR 4501.17.1.13. (This method does not require any additional methods of protection.)

 A combination of "non-dwelling" walls (fences, screen enclosures, etc.) located around the pool perimeter with a 48" high sturdy self-closing, self-latching, lockable gate compliant with FBCR 4501.17.1.8. The plans must specify the type and location of all non-dwelling walls per FBCR 4501.17.1.11. (This method does not require any additional methods of protection.)

 Where a wall of a dwelling with openings leading directly to the pool serves as part of the barrier: All doors and windows providing direct access to the pool from the home shall be equipped with an exit alarm complying with UL 2017 per FBCR 4501.17.1.9 (1). (This method requires an additional 48" high barrier around the property, and when provided, gate(s) compliant with FBCR 4501.17.1.8.)

 Where a wall of a dwelling with openings leading directly to the pool serves as part of the barrier: All doors and windows providing direct access to the pool from the home shall be equipped with self-close-latch & key-lock mechanical devices installed at min of 54" above the threshold complying with FBCR 4501.17.1.9 (2). (This method requires an additional 48" high barrier around the property, and when provided, gate(s) compliant with FBCR 4501.17.1.8.)

✓ Where a wall of a dwelling with openings leading directly to the pool serves as part of the barrier: A swimming Pool Alarm compliant with ASTM F2208 as per FBCR 4501.17.1.9(3), placed in the pool that sounds an alarm upon detection of an accidental or unauthorized entry into the water. (This method requires an additional 48" high barrier around the property, and when provided, gate(s) compliant with FBCR 4501.17.1.8.)

In accordance with the Florida Building Code Residential, a final inspection of the pool project will not be approved without compliance with the 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.

Owner/Agent Printed Name, Signature, and Date

County of Miami-Dade

Sworn and Subscribed before me this 13th day of Nov, 2018 By Michael Taib who X is personally Known,

or produced _____ as identification,

Kelly J. Villa
Notary Public, State of Florida

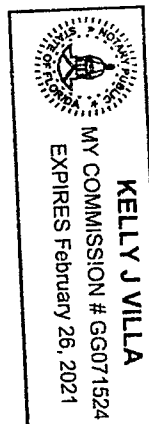
Prime Contractor Printed Name, Signature, and Date

County of Miami-Dade

Sworn and Subscribed before me this 13th day of Nov, 2018 By Maria C. Rodriguez who X is personally Known,

or produced _____ as identification,

Kelly J. Villa
Notary Public, State of Florida



NOTE: ALL SHEETS MUST BE REVIEWED

MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

Herbert S. Saffir Permitting and Inspection Center

11805 SW 26th Street (Coral Way) • Miami, Florida 33175-2474 • (786) 315-2000

APPLICATION FOR MUNICIPAL PERMIT APPLICANTS THAT REQUIRE PLAN REVIEW FROM MIAMI-DADE FIRE RESCUE AND/OR ENVIRONMENTAL SERVICES

12019002798

PROVIDE MUNICIPAL PROCESS NUMBER HERE			
LOCATION OF IMPROVEMENTS	Job Address <u>1600 Cleveland RD</u> Folio <u>02-3203-001-0940</u> Lot <u>30</u> Block <u>5</u> Subdivision <u>Biscayne Point</u> PBpg. <u>14+35</u> Metes and bounds _____	CONTRACTOR INFORMATION	Contractor No. <u>CPC 1456901</u> Last four (4) digits of Qualifier No. <u>1271</u> Contractor Name <u>La Casa Delas Piscinas</u> Qualifier Name <u>Naria C. Rodriguez</u> Address <u>2601 NW 18 Terrace</u> City <u>Miami</u> State <u>FL</u> Zip <u>33125</u>
TYPE OF IMPROVEMENTS	☐ New Construction on Vacant Land ☐ Alteration Interior ☐ Alteration Exterior ☐ Relocation of Structure ☐ Enclosure ☐ Repair ☐ Repair Due to Fire ☐ Demolish ☐ Shell Only ☐ Addition Attached ☐ Addition Detached ☐ Re-Roof ☐ Foundation Only ☐ Tent	Current use of property <u>Single Family Residential</u> Description of Work <u>New swimming Pool</u> Sq. Ft. _____ Units _____ Floors _____ Value of Work <u>22,500.00</u>	
PERMIT TYPE	☒ MBLD* Category <u>REPAIR</u> ☐ MELE ☐ MPLU ☐ MLPG ☐ MMEC ☐ FIRE	REVIEW STATUS	☐ Chg. Contractor ☐ Re-Issue ☐ Re-Stamp ☐ Revision ☐ Not Applicable for Fire
OWNER'S NAME	Owner <u>Mihai 1 LLC</u> Address <u>343 Layne Blvd</u> City <u>Hallandale</u> State <u>FL</u> Zip <u>33009</u> Phone _____ Last four (4) digits of _____ Owner's Social Security No. _____		
PERSON TO PICK UP PLANS	Name <u>Kelly J. Villa</u> Address <u>1469 Fairway RD</u> City <u>Dembroke Pines</u> State <u>FL</u> Zip <u>33026</u> Phone <u>786.525.3153</u>	ARCHITECT / ENGINEER	Owner _____ Address _____ City _____ State _____ Zip _____ Phone _____
FIRE SPECIAL REQUEST PLAN REVIEW (SRI)	I am requesting a Special Request Plan Review (SRI) to be scheduled as soon as possible. There is a minimum charge of one-hour. Please contact the Fire Department for current rate. 1 st Request: _____ Date: _____ 2 nd Request: _____ Date: _____ 3 rd Request: _____ Date: _____		
If the applicant is a known named violator with: unpaid civil penalties; unpaid administrative costs of hearing; unpaid County investigative, enforcement, testing, or monitoring costs; or unpaid liens, any or all of which are owed to Miami-Dade County pursuant to the provisions of the Code of Miami-Dade County, Florida, a hold on the review may be placed on this application.			

Office Use Only		Applicant Information (Blue or Black Ink Only)	
Submittal Date: _____ Permit #: _____		Parcel / Folio Number: 02-3203-001-0940	
Property Address: 1100 Cleveland RD		Unit #: _____	Master Permit Number (If applicable): _____
		Building Department 1700 Convention Center Drive, 2nd Floor Miami Beach, Florida 33139 Telephone: 305-673-7610; Fax: 305-673-7857 http://www.miamibeachfl.gov/building/	
Permit Type (select one) ☒ Building ☐ Electrical ☐ Mechanical ☐ Plumbing ☐ Roofing ☐ Phased Permit ☐ Demo year built ☐ Generator ☐ Temporary Structure ☐ Fire		Permit Request (select all that apply) ☒ New Permit ☐ Change of Contractor ☐ Change of Architect/Engineer ☐ LEED ☐ Permit Extension ☐ Permit Renewal ☐ Permit Revision ☐ Change of Use ☐ Private Provider ☐ City Project	
		Property Information (select one) ☐ Commercial ☐ Multi-Family Residential ☒ Residential: Single-Family Residential or Duplex Occupancy Classification: _____	
Total Value: _____		Square Footage: _____ Value of Work: \$ 22,500.00	
Description of Work: New Swimming Pool			
Property Owner		Contractor	
Name: MIHA Development LLC		Name: La Casa De las Piscinas Inc	
Address: 343 Layne Boulevard		Address: 2601 NW 18 Terrace	
City: Hallandale FL		City: Miami FL	
State: _____ Zip Code: 33009		State: _____ Zip Code: 33125	
Driver's License/State Identification Number: _____		State Identification Number/License: CPC1456901	
E-Mail Address: _____ Daytime phone: _____		E-Mail Address: mrod1447@gmail.com Daytime phone: 3126-3107	
Architect		Structural Engineer	
Name: _____ License Number: _____		Name: _____ License Number: _____	
E-Mail Address: _____ Daytime phone: _____		E-Mail Address: _____ Daytime phone: _____	
Notice & Certification			
This application is hereby made to obtain a permit to do the work and installations as indicated. I certify that all work will be performed to meet the standards of all laws and construction regulations in this jurisdiction. I understand that a separate permit must be secured for Electrical, Elevator, Fire, Mechanical, Plumbing, Signs, Wells, Pools, Furnaces, Boilers, Heaters, Tanks, Air Conditioners, etc. Owner's Affidavit: I certify that all the foregoing information is correct. Owner Certifies that the aforementioned Contractor has the authorization to perform the work as specified above. Lessee's Affidavit: Lessee certifies that he has full consent and authorization from owner of subject property to perform the above mentioned work and to hire above captioned contractor. In addition to the requirements 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 governmental entities such as: the Environmental Division of Miami-Dade County; Permitting, Environment and Regulatory Affairs, Water & Sewer Department, Department of Environmental Protection, South Florida Water Management District, Miami-Dade County Impact Fee, water management districts, state agencies, and/or federal agencies. Under penalties of perjury, I declare that to the best of my knowledge, the facts stated in this document are true. Any information found to be false may cause the revocation and/or denial of the permit and/or Certificate of Occupancy.			
OWNER'S ELECTRONIC SUBMISSION STATEMENT: Under penalty of perjury, I declare that all the information contained in this permit application is true and correct.			
☐ Owner/Lessee for new permits (Documentation establishing ownership may be requested). ☐ TEMPORARY STRUCTURE PERMIT PACKAGE MUST BE SUBMITTED TWO (2) WEEKS IN ADVANCE. ☐ Master Permit Contractor of Record (For sub-permit / change of contractor).			
WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT IS REQUIRED FOR ANY WORK WITH COST EXCEEDING \$2,500.00.			
Signature of Owner/Agent or GC (for Sub-permits): _____ PRINT NAME: Michael Taieb STATE OF FLORIDA MIAMI-DADE COUNTY Sworn to and subscribed before me this 13th day of November , 20 18 by Michael Taieb Signature of Notary Public: _____		Signature of Qualifier: _____ PRINT NAME: Maria C. Rodriguez STATE OF FLORIDA MIAMI-DADE COUNTY Sworn to and subscribed before me this 13th day of November , 20 18 by Maria C. Rodriguez Signature of Notary Public: _____	
Print Name: Kelly J. Villa  KELLY J VILLA MY COMMISSION # GG071524 EXPIRES February 26, 2021		Print Name: Kelly J. Villa  KELLY J VILLA MY COMMISSION # GG071524 EXPIRES February 26, 2021	
(SEAL) Personally known _____ or Produced Identification _____		(SEAL) Personally known _____ or Produced Identification _____	

Excellence Miami Beach

Our Mission

We are committed to providing excellent public service and safety to all who live, work and play in our vibrant, tropical, historic community.

Form Name	Permit Application.
Form Purpose	This form is completed if an owner or developer would like to request a permit for a construction or a rehabilitation project within the City of Miami Beach.
Related Forms	Please see the Permit Application Submittal Checklist on the link below: 1. <u>Permit Application Submittal Checklist</u>
Associated Fees	1. <u>Upfront Processing Fee</u>. 2. <u>Permit Fees</u>, as applicable.
Additional Info	Payments can be made at the following locations: • Kiosks/IPads located at the Building Department, 2nd Floor of City Hall and at the <u>North Beach Office</u>. • <u>Cashier's window</u>, 1st Floor City Hall. • To make payments online: <u>https://secure.miamibeachfl.gov/payments/</u> (Online Quick Pay)
Form Process	1. Permit Application and project plans submitted with upfront fee. 2. Plan Review Process is performed by the City, if applicable. 3. Payment of permit fees are assessed and satisfied. 4. Permit is issued.
For Progress Status	You can check on an application's status in the City via the CAP system: <u>https://eservices.miamibeachfl.gov/EnerGovProd/CitizenAccess/Site/Public/Main</u>
For Assistance	Please contact: • In person: Permit Counter at the Building Department's Main Office 1700 Convention Center Drive, 2nd Floor, Miami Beach, Florida 33139, or North Beach Office located at 962 Normandy Drive, Miami Beach, Florida 33141. • Via Telephone: 305-673-7610. • Online: <u>http://www.miamibeachfl.gov/city-hall/building/</u>

TEMPORARY STRUCTURE PERMIT PACKAGE MUST BE SUBMITTED TWO (2) WEEKS IN ADVANCE.

ADA Information

To request this material in accessible format, sign language interpreters, information on access for persons with disabilities, and/or any accommodation to review any document or participate in any city-sponsored proceeding, please contact 305-604-2489 (voice), 305-673-7524 (fax), or 305-673-7218 (TTY) five (5) days in advance to initiate your request. TTY users may also call 711 (Florida Relay Service).

FLORIDA

PO-R-1800294

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:

**Interior Designs
1210 Cleveland Road
Miami Beach, Florida 33140**

PREPARED FOR:

**Proposed Swimming Pool
1600 Cleveland Road
Miami Beach, Florida 33141**

10/11/18

PREPARED BY:

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

ON:

October 11, 2018



TABLE OF CONTENTS

I.) DISCLAIMER

II.) COVER LETTER

- **SOIL STRATAS**
- **WATER LEVELS**
- **FOUNDATION RECOMMENDATIONS**

III.) STANDARD (DYNAMIC CONE) PENETRATION LOG(S)

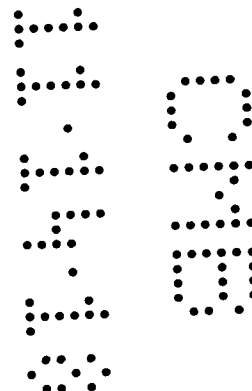
IV.) FIELD SKETCH

V.) MAP OF SUBJECT SITE

VI.) GENERAL NOTES

- **KEY CLASSIFICATIONS & SYMBOLS**

VII.) LIMITATIONS OF LIABILITY



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.



ENGINEERING & TESTING, INC.

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

October 11, 2018

Job Order No.: 18-4512

Interior Designs
1210 Cleveland Road
Miami Beach, Florida 33140

RE: SUBSOIL INVESTIGATION
Proposed Swimming Pool
1600 Cleveland Road
Miami Beach, Florida 33141

Dear Sir or Madam;

Pursuant to your request, Florida Engineering & Testing, Inc., has completed a subsoil investigation on October 9, 2018, at the above referenced site. The purpose of our investigation was to verify subsoil conditions relative to the proposed structure(s) foundation preparation and design. Our recommendations are based on the assumption that the proposed structure(s) are as follows: a standard size gunite swimming pool.

One (1) **SPT** boring was performed according to **ASTM D-1586** down to a depth of twenty-five feet (25') below existing ground level (BEG) (see attached field sketch for locations). Please see the attached SPT Test Boring Report(s) for soil profiles.

Groundwater table elevation was measured immediately at the completion of the boring and was found at a depth of three feet seven inches (3'7") 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. Care should be taken to avoid damaging seawall tiebacks.

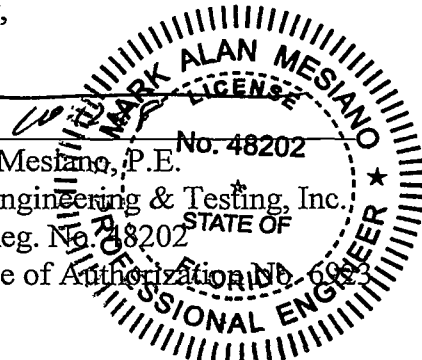
Regardless of the thoroughness of a Geotechnical exploration there is always a possibility that conditions may be different from those of the test location; therefore Florida Engineering & Testing, Inc., does not guarantee any subsoil condition surrounding the bore test hole. For a more accurate portrayal 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 should 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,


Mark A. Mesiano, P.E.
Florida Engineering & Testing, Inc.
Florida Reg. No. 48202
Certificate of Authorization No. 6082



SPT Test Boring Report

Client: Interior Designs Hole No: B-1
 Project: Proposed Swimming Pool Date: 10/9/18
 Address: 1600 Cleveland Road Miami Beach, Florida
 Location: See Attached Field Sketch

Depth (Ft)	Soil Descriptions	Hammer Blows	N	Penetration "N" Value			
				10	20	30	40
0' - 5'	Brown to Grayish Brown Silty Fine Sand with Trace of Rock	1 1	4				
		3 6					
		2 3	9				
		6 3					
5' - 9'	Light Greenish Gray Silty Fine Sand with Some Shell Fragments	5 5	9				
		4 2					
		2 2	3				
		1 0					
9' - 15'	Light Greenish Gray Slightly Silty to Silty Fine Sand with Some Shell Fragments	1 1	2				
		1 3					
		-- --	A				
		-- --					
15' - 20'	Bluish Gray Fine Sand with Some Shell Fragments	6 6	13				
		7 9					
		-- --	A				
		-- --					
20' - 23'	Light Bluish Gray Fine Sand with Little Light Grayish Brown Sandy Limestone	8 10	19				
		9 9					
		-- --	A				
		-- --					
23' - 25'	Light Grayish Brown Sandy Limestone with Some Light Grayish Brown Silty Fine Sand	10 10	21				
		11 13					

Water Level: 3'7" BEGL

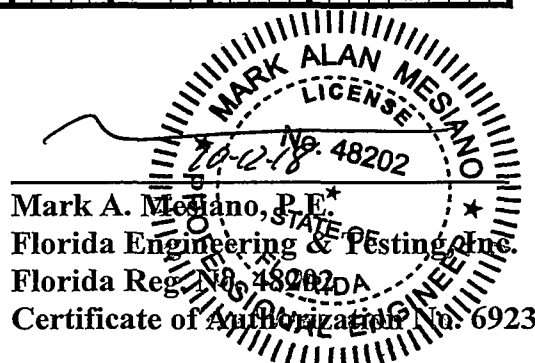
As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

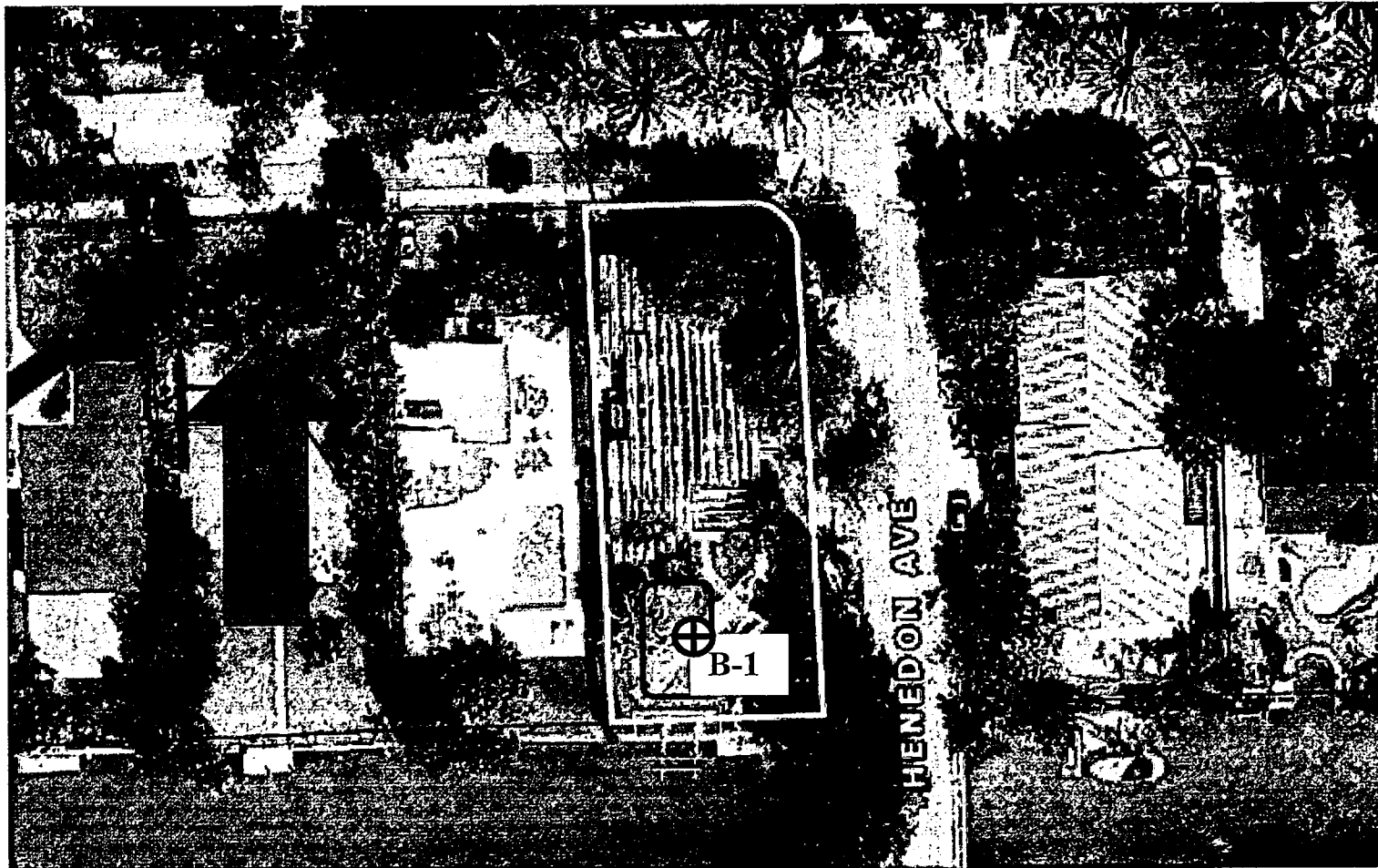
A = Auger

Ref = Refusal

BEGL = Below Existing Ground Level

0 = Weight of Hammer





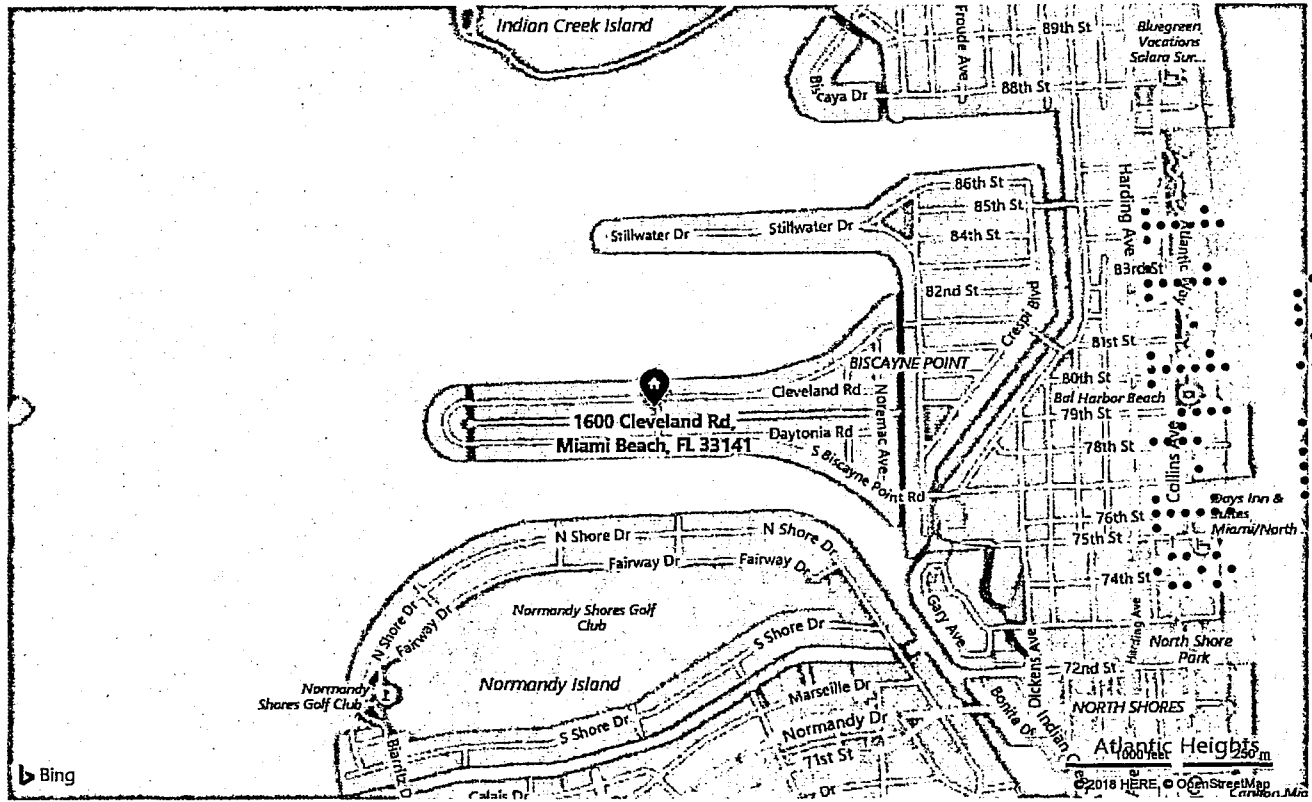
Field Sketch

Not to Scale

1600 Cleveland Road

Miami Beach, Florida 33141

1600 Cleveland Rd, Miami Beach, FL 33141



Data from: Zillow · Redfin · GreatSchools



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.

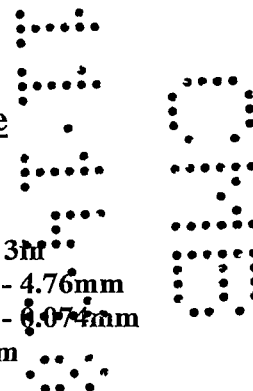
KEY CLASSIFICATIONS & SYMBOLS

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 - 3mm
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.

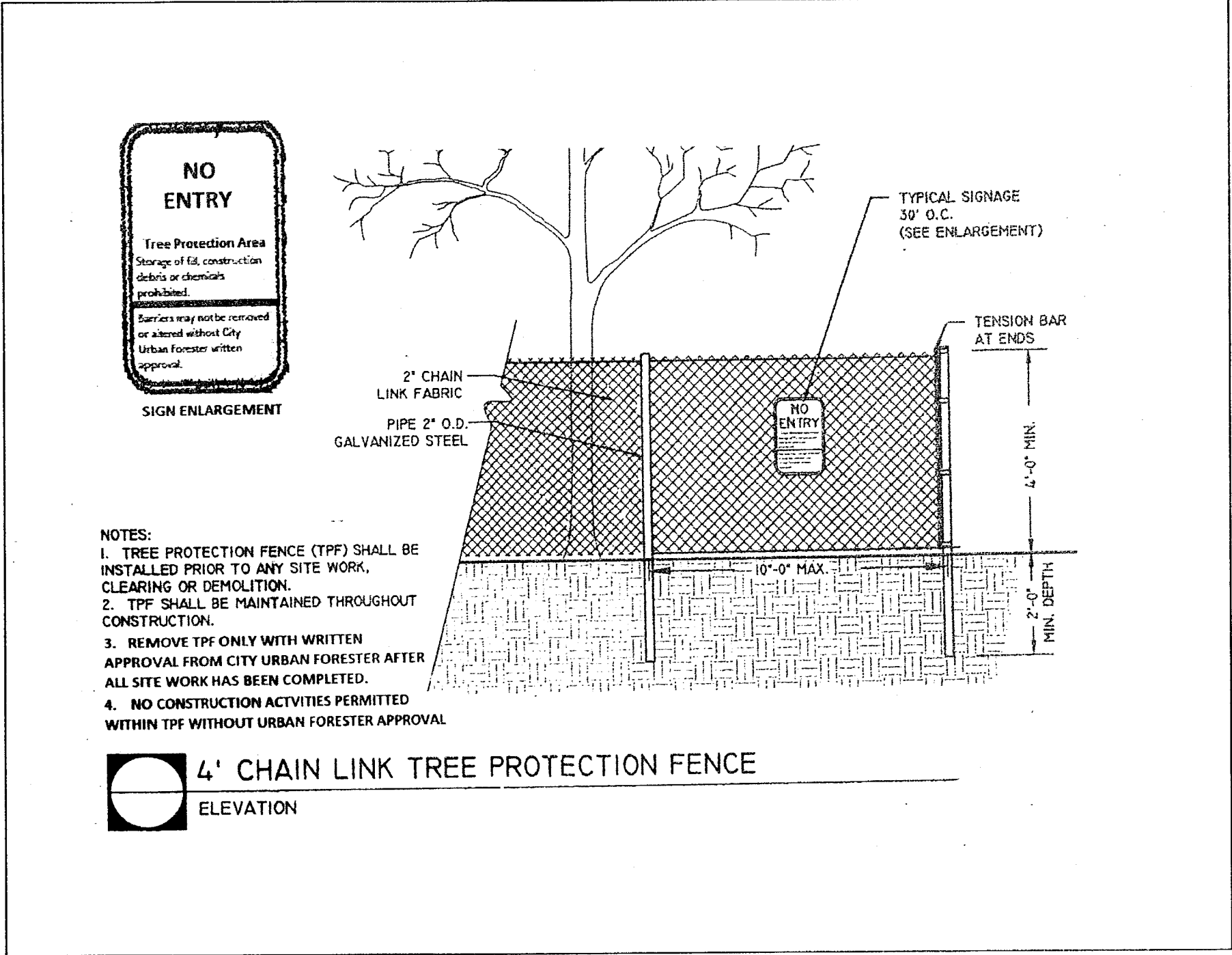
Report recommendations are based primarily on data from test borings made at the locations shown on the test boring reports. Soil variations may exist between borings and may not become evident until construction. If variations are then noted, Florida Engineering & Testing, Inc., should be contacted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

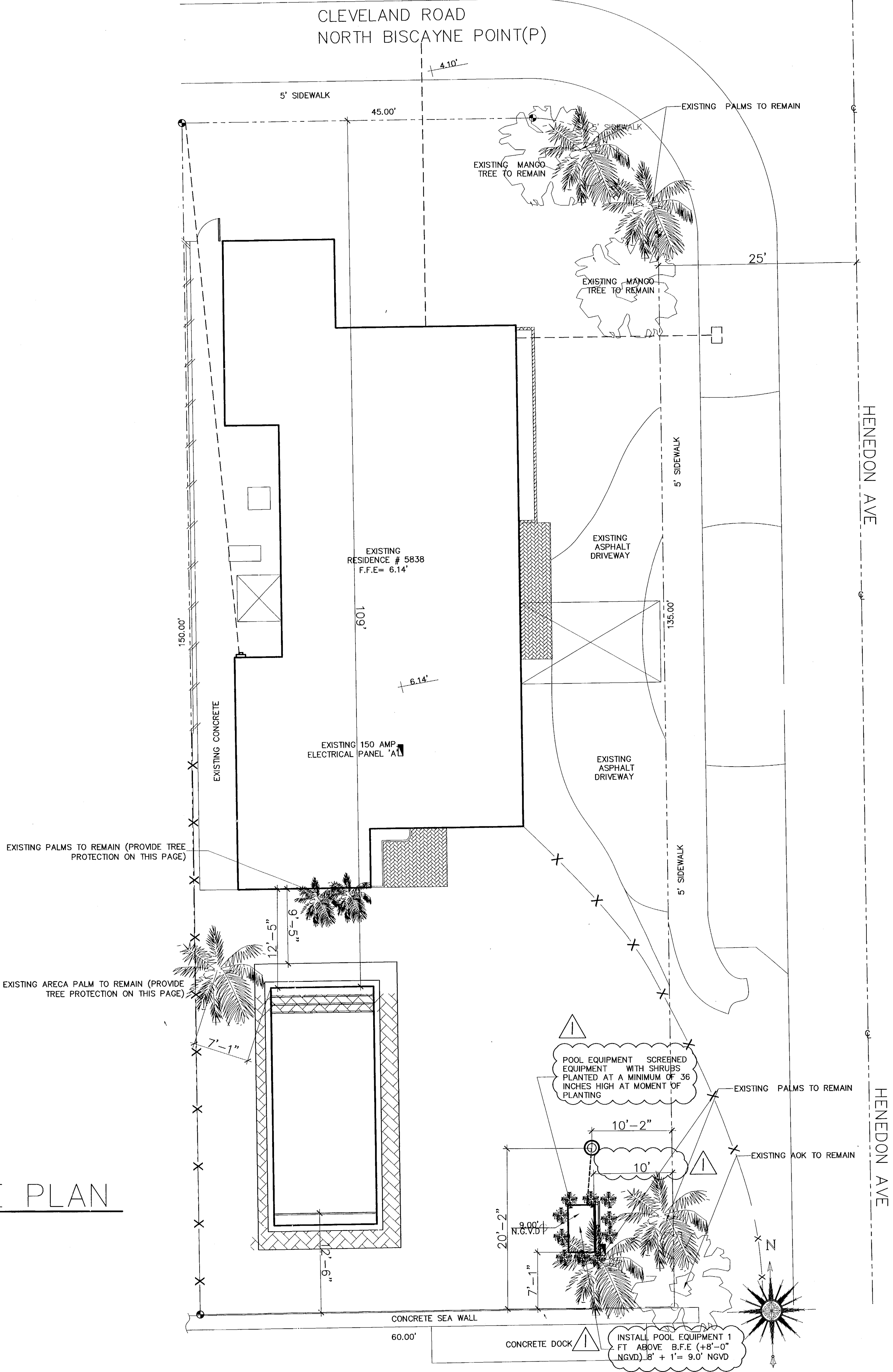
The Field Rep. is responsible for his/her safety only, but has no responsibility for the safety of other personnel and/or the general public at the site. If the Field Rep. does not feel that the site is offering a safe environment for him/her, the Field Rep. will stop his/her observation/ testing until 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.



EXISTING TREES SITE PLAN

SCALE: 1/8"=1'-0"

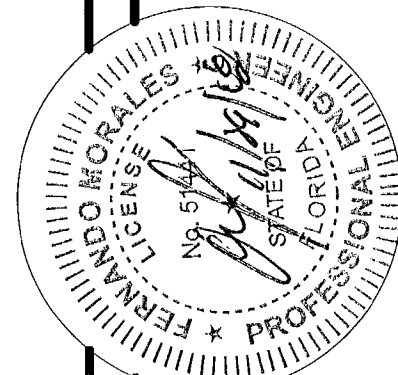
LEGAL:
BISCAYNE POINT PB 14-35 LOT 30 BLK 5
LOT SIZE 60.000 X 150 OR 13419-2081 0987 1



NEW SWIMMING POOL FOR:

LOLACASO LLC

1600 CLEVELAND RD MIAMI BEACH, FL 33141-1719



Fernando Morales, P.E.
5201 S.W. 162 Place
Miami, Florida 33185
786-380-9739
License # 51441

REVISIONS

No.	DATE	REVISIONS	BY
1	11/28/18		

R.S.
DRAWN
DATE

APPROVED
INDICATED
SCALE

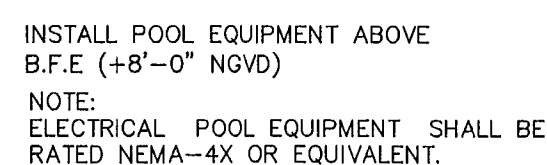
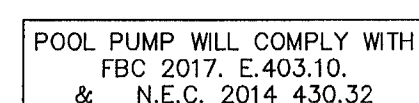
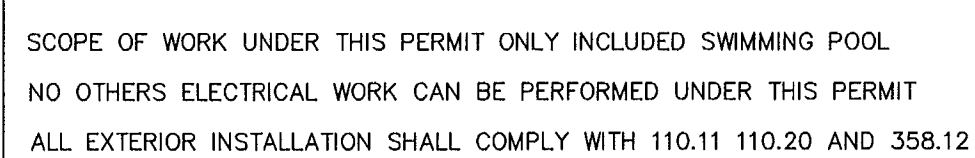
SHEET NO:
1.1 OF 3



SURFACE AREA (SQ.FT.)	390
VOLUME (GALLONS)	8325.21
TURNOVER (HOURS)	2.36
PERIMETER (FEET)	78
DECK AREA (SQ.FT)	198



1. ALL POOL EQUIPMENT PIPING SHALL BE SCHEDULE 40, PVC-PW, NON-THREADED, NSF APPROVED SUPPORTED CONTINUOUSLY ON GROUND OR ON MAXIMUM 4'-0" CENTERS WITH CLEVIS HANGERS.
2. ALL SUCTION PIPING SHALL BE 2" DIAMETER AND ALL PRESSURE PIPING 1-1/2" DIAMETER UNLESS OTHERWISE NOTED.
3. POOL WATER DISPOSAL SHALL BE IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT REQUIREMENTS.
4. ANTI VORTEX MAIN DRAINS SHALL HAVE ITS PLATE SECURELY FASTENED WITH TAMPERPROOF SCREWS.
5. POOL VACUUM SHALL HAVE SPRING LOADED CAP IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.
6. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE-PLUMBING SECTION 309 AS IT PERTAINS TO BUOYANCY.
7. THE WATER VELOCITY THOUGH ALL SUCTION PIPING SHALL BE LESS THAN 8 FEET PER SECOND.
8. THE WATER VELOCITY THROUGH ALL PRESSURE PIPING SHALL BE LESS THAN 10 FEET PER SECOND.
9. ALL SHIELDING SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE FOR EXPOSURE TO ULTRA VIOLET RADIATION AND NORMAL OPERATING TEMPERATURES.



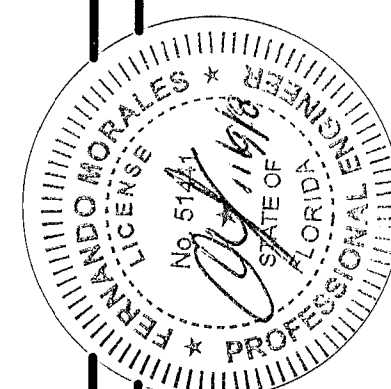
TOTAL LOAD @ 100% ----- 2 040W

$$2\,040\text{ W} / 240\text{ VOLT} = \text{-----}8.5\text{ AMP. @ 100\%}$$


NEW SWIMMING POOL FOR:

LOLACASO LLC

1600 CLEVELAND RD MIAMI BEACH, FL 33141-1719



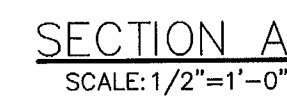
Fernando Morales, P.E.
5201 S.W. 162 Place
Miami, Florida 33185
786-380-9739
License # 51441

REVISIONS

[illegible]

R.S	
DRAWN	APPROVED
	INDICATED
DATE	SCALE

SHEET NO:
2 OF: 4



SHEET NO:
3 OF: 3

PO-R1800294

1600 Cleveland Td

M2019002798

DERM

PLAN REVIEW

FINAL

APPROVAL

DIVISION OF ENVIRONMENTAL
RESOURCE MANAGEMENT

NAME (PRINT): Mary Santiago

SIGNATURE: Mary Santiago DATE: 11-27-2018



0001095626