



**TECHNICAL REVIEW COMMITTEE MEETING
CITY OF ST. PETE BEACH**

**Notice of Public Meeting
Technical Review Committee**

Community Development Department TRC Room
155 Corey Avenue, City Hall, St. Pete Beach, FL 33706

Wednesday, November 15, 2023
10:00 AM

Regular Meeting Agenda

This is an informal meeting between City staff and the applicant(s). The public is invited to attend, however no public comment shall be permitted.

Discussion Items

1. Site Plan #23083: 102 8th Ave (La Tortuga Pass-a-Grille)

Installation of an inground 18x40' commercial swimming pool with travertine paver deck and electric pool heater/chiller (LDC Sec. 6.6).

Next Meeting: December 6, 2023

TECHNICAL REVIEW COMMITTEE MEETING CITY OF ST. PETE BEACH

Agenda Report

Action Request:

Strategic Objective:

Date: November 15, 2023

Prepared By: Brandon Berry, Planner II

Through: Jennifer McMahon, Chief Operating Officer

Summary of Issue: Installation of an inground 18x40' commercial swimming pool with travertine paver deck and electric pool heater/chiller (LDC Sec. 6.6).

Funding:

Attachments:

1. Application and Attachments
2. 102 8th Ave Survey
3. Pool Plans



Case Number: _____

City of St. Pete Beach
Community Development Department
155 Corey Avenue
St. Pete Beach, Florida 33706
727-367-2735
www.stpetebeach.org

PROPERTY OWNER:

Name: 102 8TH AVENUE LLC
Address: 3112 PASS-A-GRUE WAY

City: ST. PETE BEACH State: FL.
Zip: 33706 Telephone: 443-838-7866

Email: EABEL63@GMAIL.COM

APPLICANT/AGENT (Attach agent authorization form):

Name: MICHAEL E. KELLY
Address: KELLY POOLS, INC. P.O. Box 309

City: INDIAN ROCKS BEACH State: FL.
Zip: 33785 Telephone: CELL 727-580-1313

Email: MIKE@KELLYPOOLS.COM

SUBJECT PROPERTY:

Address: 102 8TH AVENUE Current Name of Business: LA TORTUGA
Parcel: 19-32-16-58932-006-0010 Name of Project: LA TORTUGA

DETAILS OF THE REQUEST, INCLUDING APPLICABLE CODE SECTIONS AND ANY ASSOCIATED CASES (Add additional sheets if necessary):

INSTALLATION OF AN INGROUND 18'x40' COMMERCIAL
SWIMMING POOL WITH TRAVERTINE PAVER DECK AND
ELECTRIC POOL HEATER/CHILLER IS BEING
REQUESTED PER LDC SECTION 6.6. ADDITIONAL
INFORMATION IS ATTACHED.

Michael E. Kelly
Signature of Applicant / Agent
MICHAEL E. KELLY
KELLY POOLS, INC.

10/12/2023
Date

102 8TH AVENUE: COMMERCIAL SWIMMING POOL REQUEST

ADDITIONAL SITE PLAN APPLICATION SUBMITTALS – PAGE TWO

ENGINEERING PROFESSIONALS THAT ASSISTED IN THE PREPARATION OF THIS APPLICATION:

- 1) Kimes Engineering (Swimming Pool Engineer): 1925 Worth Court
Bradenton, Florida 34211 Office Phone: 941-749-0311 P.E.# 33678
- 2) John C. Brendla and Associates, Inc. (Professional Land Surveyor and
Mappers) 4015 82nd Avenue North Pinellas Park, Florida 33781
Phone: 727-576-7546

PROJECT STREET ADDRESS: 102 EIGHTH AVENUE ST. PETE BEACH 33706

LEGAL DESCRIPTION: Lots 1 and 2 in Block 6 of Morey Beach Subdivision, of Government Lot 4, Section 19 Township 32 South, Range 16 East according to the plat thereof as recorded in Plat Book 1, Page 102, Public Records of Hillsborough County, Florida of which Pinellas County was formerly a part. Together with vacated alley in Ordinance No. 2008-16 recorded in Official Records Book 16279, Page 2383, Public Records of Pinellas County, Florida.

ZONING DISTRICT: CRD-EA

September 27, 2023

Mr. Brandon Berry
Community Development Department
City of St. Pete Beach, Florida
155 Corey Avenue
St. Pete Beach, Florida 33706

RE: Authorization Letter - Pool Building Permit Acquisition & Representation

Dear Mr. Berry,

This is to confirm that I am appointing Mike Kelly, Owner of Kelly Pools, Inc, to be my duly authorized representative in matters with the City of St. Pete Beach, Florida that relate to the building permit acquisition and construction of a new commercial swimming pool at my property located at 102 Eighth Avenue in St. Pete Beach. He has my permission to act on my behalf and make decisions as required by the City of St. Pete Beach, Florida related to this construction project.

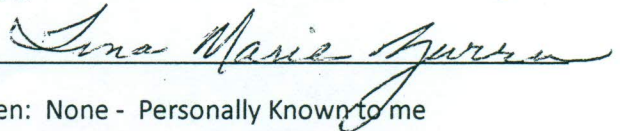
Respectfully,



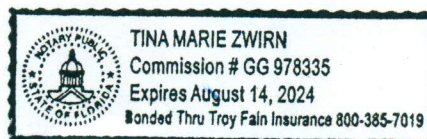
Eric Abel, Partner
102.8th Avenue LLC

Before me this 27th day of September 2023 appeared in person Eric R. Abel, who, being sworn, deposes and says that the foregoing is true and correct certification.

State of Florida, Pinellas County – Notary Signature



Commission Expires: August 14, 2024 Identification Taken: None - Personally Known to me





Impervious Surface Ratio (ISR) Worksheet

Impervious surface means any material that prevents absorption of storm water into the ground.

Impervious surface ratio (ISR) means a measurement of the intensity of hard-surfaced development on a site. An impervious surface ratio is the relationship between the total area covered by impervious surfaces on a site and the gross land area of the zoning lot, excluding any portion of the property lying Gulfward of the city's coastal construction and excavation setback line. The impervious surface ratio is calculated by dividing the square footage of the area of all impervious surfaces on the site by the square footage of the gross land area, excluding any portion of the property lying Gulfward of the city's coastal construction and excavation setback line.

Owner Name & Address

102 8TH AVENUE LLC
3112 PASS-A-GRIFFIN WAY
ST. PETE BEACH, FL. 33706

Phone 443-838-7866

Email EABEL63@gmail.com

Contractor/Applicant Name & Address

MICHAEL E. KELLY
KELLY POOLS, INC.
P.O. BOX 309 INDIAN ROCKS
BEACH, FL. 33785

Phone 727-580-1313

Email MIKE@KELLYPOOLS.COM

Property Address 102 8TH AVENUE

Total Lot Area (sq. ft.) 12,045 (105'x73': PINELLAS COUNTY PROPERTY APPRAISER INFORMATION)

Required Calculations:

EXISTING IMPERVIOUS SURFACE:		
Building Footprint:	<u>2083</u>	sq. ft.
Parking and Driveway:	<u>4004</u>	sq. ft.
Pool and/or Patio areas:	<u>-0-</u>	sq. ft.
Walkways:	<u>614</u>	sq. ft.
Other:	<u>-0-</u>	sq. ft.
TOTAL EXISTING IMPERVIOUS SURFACE:	<u>6701</u>	sq. ft.

PROPOSED IMPERVIOUS SURFACE:		
Building Footprint:	<u>2083</u>	sq. ft.
Parking and Driveway:	<u>4004</u>	sq. ft.
Pool and/or Patio areas:	<u>1836</u>	sq. ft.
Walkways:	<u>614</u>	sq. ft.
Other:	<u>-0-</u>	sq. ft.
TOTAL PROPOSED IMPERVIOUS SURFACE:	<u>8537</u>	sq. ft.

<u>6701</u> sq. ft.	÷	<u>12,045</u> sq. ft.	=	<u>55.69%</u>
Total Existing Impervious Surfaces		Lot Area		Existing Impervious Surface Ratio

<u>8537</u> sq. ft.	÷	<u>12,045</u> sq. ft.	=	<u>70.88%</u>
Total Proposed Impervious Surfaces		Lot Area		Proposed Impervious Surface Ratio

Certification:

I, MICHAEL E. KELLY certify that the calculations submitted above for the Impervious Surface Ratio are accurate and complete. The square footage of all existing structures and improvements are accounted for and the square footage of all proposed structures and improvements are included in the calculations below.

Applicant Signature: Michael E. Kelly Date: 10/12/2023

1. No food or beverages in the pool or on pool wet deck. Commercially bottled water in plastic bottles is allowed on the pool wet deck for pool patron hydration.
2. No glass or animals within fenced pool area (or 50' from unfenced pool).
3. Bathing Load: 20 persons.
4. Pool Hours: DAWN to DUSK
5. Shower before entering pool.
6. DO NOT SWALLOW THE POOL WATER.

NO DIVING

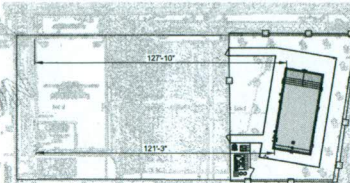
POOL MAXIMUM DEPTH: 5 FEET

POOL REGULATIONS SIGN DETAILS

1. All letters shall be a MIN. of 1" in height, except "NO DIVING" shall be 4" high.
2. Sign shall be legible from the pool deck.
3. The sign shall contain at a minimum information in FBC 454.1.2.3.5 and rule 6AFC 6.004-01, CAC.

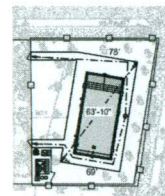
REQUIRED POOL SIGNAGE

F1 SCALE: N.T.S.



F9 RESTROOMS WITHIN 200' OF POOL

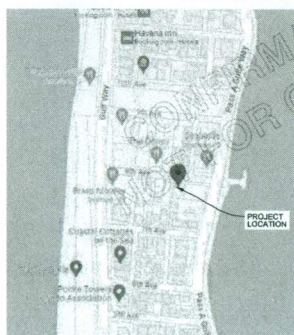
(F8) SCALE: 1" = 30'



1004.1.1 - OCCUPANT LOADS	FBC	NFPA
SWIMMING POOL WATER SURFACE(S)		
POOL (720) SF	/50: 14	/50: 14
SWIMMING POOL DECK		
1172 SF	/15: 79	/30: 40
CALCULATED OCCUPANTS:	93	54

OCCUPANTS & LIFE SAFETY PLAN

SCALE: 1" = 30'



VICINITY MAP

A8 SCALE: N.T.S.

GENERAL NOTES FOR POOL

- [illegible]

IF FIELD CONDITIONS DO NOT ALLOW CONSTRUCTION AS SHOWN ON THESE PLAN(S), OR THE CONTRACTOR CHOOSES TO USE DIFFERENT EQUIPMENT OR METHODS, CONTACT THE ENGINEER FOR REVIEW & MODIFICATION.

SANITARY FACILITY REQUIREMENTS

- [illegible]

PROTECTIVE BARRIER / FENCE NOTES

- [illegible]

FBC 454.1.1 MIN. REQD. SIZING		
BATHER RATIO S LIVING UNITS BATHERS		
TRANSIENT (T:2)	8	2
NON-TRANSIENT (N:7)	0	0
TOTAL REQD # BATHERS (BL:2)		2
MIN. REQD. FLOWRATE (BL x 5 GPM)		10 GPM
MIN. REQ. SQ. FT. (BL x 20 SF)		40 SF
POOL		
PERIMETER: 116 LF		FLOW: 100 GPM
AREA: 720 SF		BATH LOAD: 20
VOLUME: 10496 GAL		TURNOVER: 3.2 HRS



THESE PLANS COMPLY WITH 7TH ED. (2020) FBC SECTION 454.1

LA TORTUGA
102 8TH AVE
PETERSBURG BEACH, FL
POOL

ST. PETER

SHEET
X-00
SHEET 1 OF 1

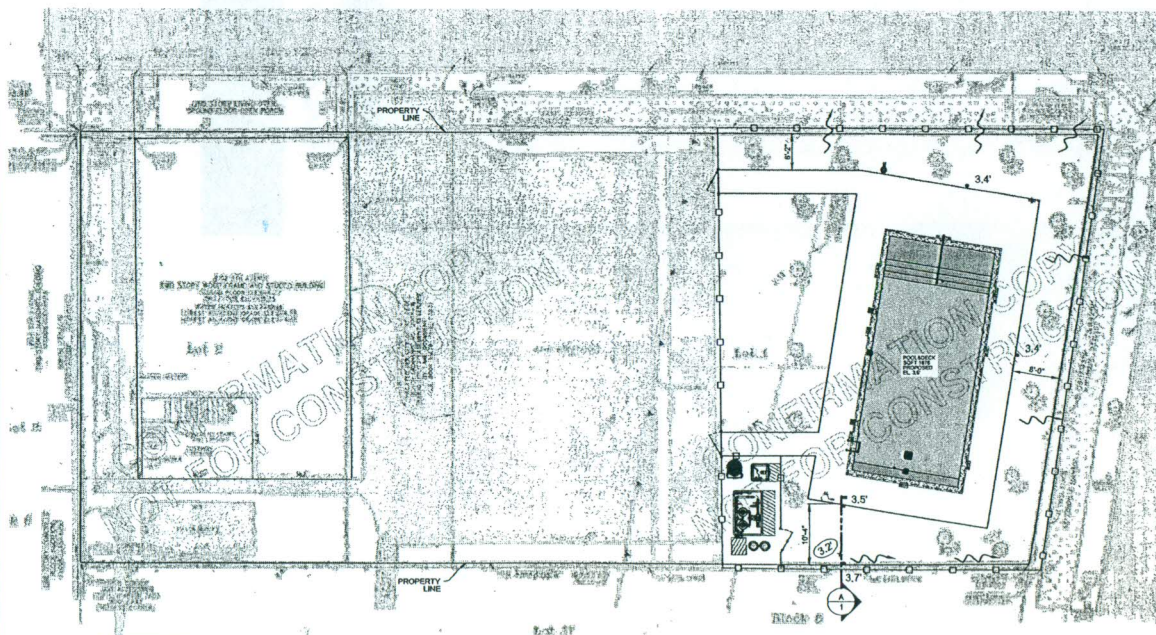
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CONFIRMATION COPY
NOT FOR CONSTRUCTION

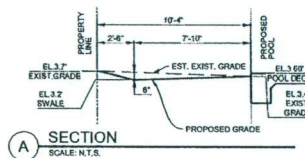
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NOT FOR CONSTRUCTION

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NOT FOR CONSTRUCTION



(A1) PROPOSED DRAINAGE PLAN
SCALE: 1"=10'

EXISTING LOT COVERAGE	
TOTAL AREA OF LOT	1207 SF
TOTAL BUILDING	207 SF
EXISTING PAVEMENT (IMPERVIOUS)	484 SF
EXISTING COVERAGE	55.6 %
PROPOSED ADDITION	
TOTAL AREA OF FEATURES	4426 SF
POOL & PAVEMENT (IMPERVIOUS)	1876 SF
POOL EQUIPMENT (IMPERVIOUS)	187 SF
PROPOSED COVERAGE	73.7 %



(A) SECTION
SCALE: N.T.S.

- NOTES:
1. SURVEY AS SHOWN ON THIS SHEET WAS PROVIDED BY JCB PROFESSIONAL LAND SURVEYORS DATED MAY 10, 2021.
 2. ELEVATIONS ARE BASED ON NGVD 1929.
 3. DRAINAGE EASEMENTS SHALL NOT CONTAIN PERMANENT IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO SIDEWALKS, DRIVEWAYS, IMPERVIOUS SURFACES, PATIOS, DECKS, POOLS, AIR CONDITIONERS, STRUCTURES, UTILITY SHEDS, POLES, FENCES, SPRINKLER SYSTEMS, TREES, SHRUBS, HEDGES, AND LANDSCAPING PLANTS OTHER THAN GRASS, EXCEPT FOR THE LANDSCAPING OF STORMWATER DETENTION AND RETENTION PONDS AS REQUIRED BY THE CODE.
 4. ELEVATIONS AT PROPERTY LINES TO REMAIN UNCHANGED. DRAINAGE SWALES TO BE CONSTRUCTED USING EXISTING TOPOGRAPHY.
 5. THIS IS TO CERTIFY THAT THE DRAINAGE PLAN FOR THE SITE IS DESIGNED TO CONTAIN STORMWATER OVERST AS PERMITTED AND WILL NOT ADVERSELY IMPACT FLOODING OR DRAINAGE ON ADJACENT PROPERTIES.
 6. MIN SWALE SLOPE OF 0.2% TOWARDS DRAINAGE AREAS.

THESE PLANS COMPLY WITH 7TH ED. (2007) FBC SECTION 454.1

STAMPS AREA
NOT FOR CONSTRUCTION WITHOUT DEPARTMENT APPROVAL ON PLANS

LA TORTUGA
102 8TH AVE
ST. PETERSBURG BEACH, FL
POOL
DRAINAGE PLAN

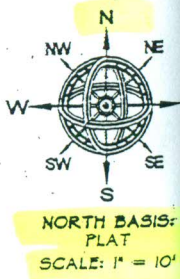
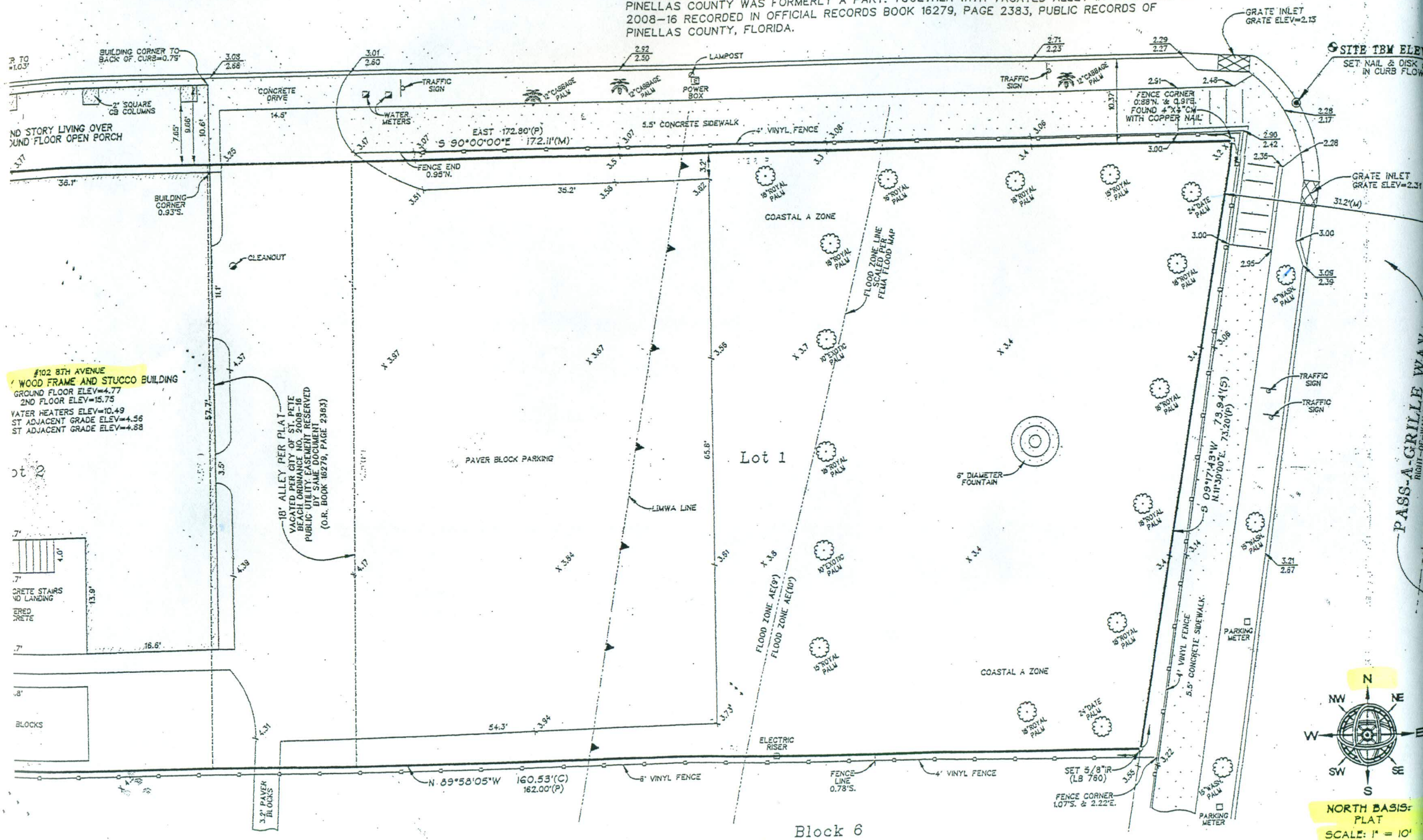
SHEET
X-005
SHEET 5 OF 4

1525 North St
St. Petersburg, FL 34711
KIMES
ENGINEERING
C.A. 27188

CONFIRMATION COPY
NOT FOR CONSTRUCTION

LEGAL DESCRIPTION: (PROVIDED TO SURVEYOR)

LOTS 1 AND 2 IN BLOCK 6 OF MOREY BEACH SUBDIVISION, OF GOVERNMENT LOT 4, SECTION 19, TOWNSHIP 32 SOUTH, RANGE 16 EAST. ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 1, PAGE 102, PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA OF WHICH PINELLAS COUNTY WAS FORMERLY A PART. TOGETHER WITH VACATED ALLEY IN ORDINANCE NO. 2008-16 RECORDED IN OFFICIAL RECORDS BOOK 16279, PAGE 2383, PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA.



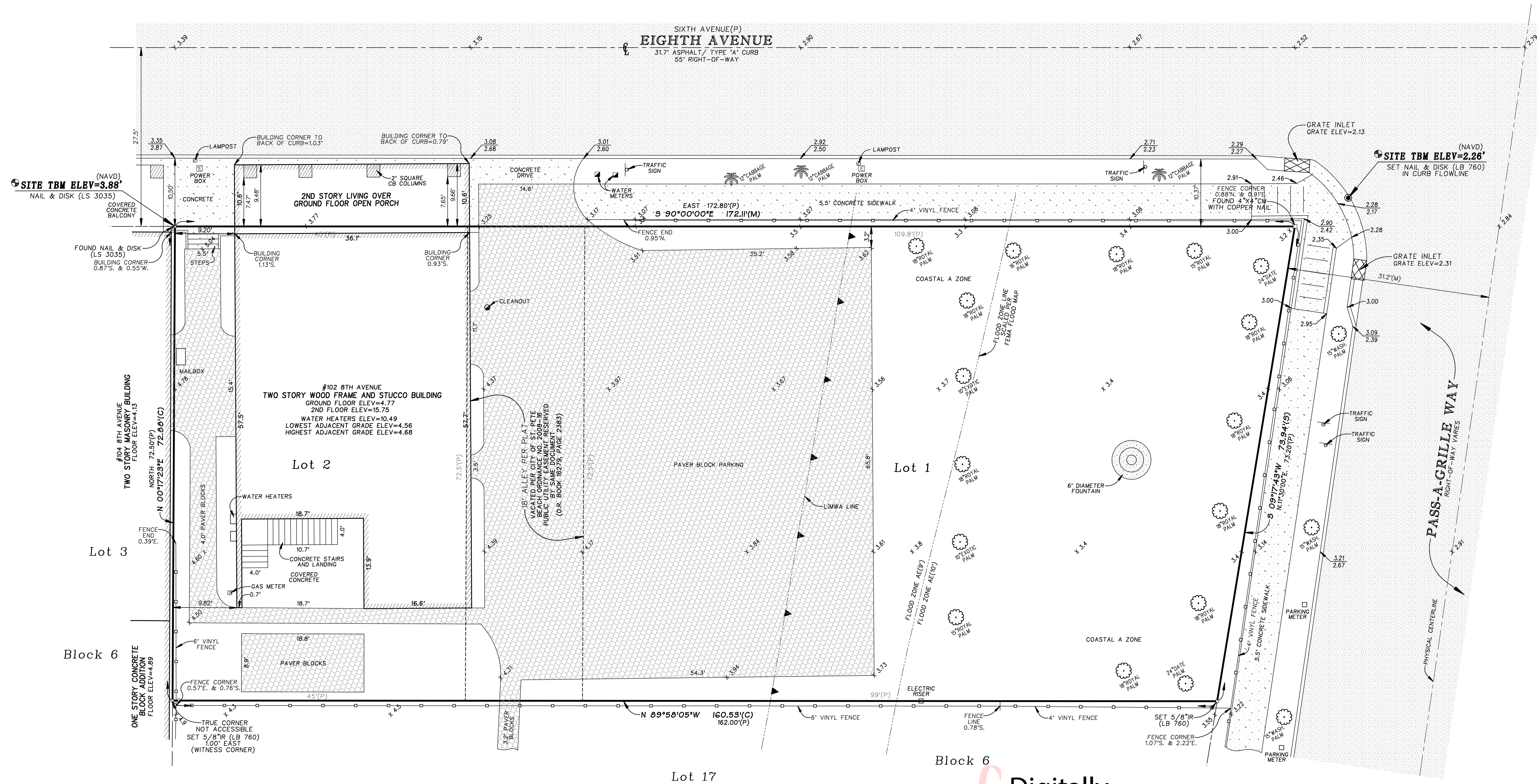
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NORTH BASIS:
PLAT

SCALE: 1" = 10'

LOTS 1 AND 2 IN BLOCK 6 OF MOREY BEACH SUBDIVISION, OF GOVERNMENT LOT 4, SECTION 19, TOWNSHIP 32 SOUTH, RANGE 16 EAST ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 1, PAGE 102, PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA OF WHICH PINELLAS COUNTY WAS FORMERLY A PART. TOGETHER WITH VACATED ALLEY IN ORDINANCE NO. 2008-16 RECORDED IN OFFICIAL RECORDS BOOK 16279, PAGE 2383, PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA.

CERTIFIED TO:
102 8TH AVENUE, LLC
CITY NATIONAL BANK OF FLORIDA, ISAOA/ATIMA
JOHNSON, POPE, BOKOR, RUPPEL & BURNS, LLP
FIDELITY NATIONAL TITLE INSURANCE COMPANY



John O.
Brendl
a

Digitally
signed by John
O. Brendla
Date:
2023.10.17
13:26:02
-04'00'

ABBREVIATIONS:

(C) = CALCULATED
C = CENTERLINE
CB = CONCRETE BLOCK
CM = CONCRETE MONUMENT
ELEV = ELEVATION
IR = IRON ROD
LB = LICENSED BUSINESS
LIMWA = LIMITS OF MODERATE WAVE ACTION
LS = LICENSED SURVEYOR
(M) = MEASURED
(P) = PLAT
(S) = SET
TBM = TEMPORARY BENCHMARK
WASH. = WASHINGTONIAN PALM TREE

Current FEMA Flood Zone Data:
FLOOD ZONE(S): AE(9') AND AE(10')
COMMUNITY PANEL #125149 12103C0278 H
AND
COMMUNITY PANEL #125149 12103C0286 H
A PORTION LIES WITHIN COASTAL A ZONE
REVISED 8/24/21

Assumed Basis of Bearings:
SOUTH RIGHT-OF-WAY LINE OF 8TH AVENUE AS
BEING S.90°00'00"E., PER PLAT.
Reference Benchmark:
PINELLAS COUNTY MAP #288 Y135 PC (STATE SURVEY 135)
ELEV=4.053' NGVD, ADJUSTED TO
ELEV=3.32' NAVD, MSL=0.00'

This survey was prepared with the benefit of a title search by Fidelity National Title Insurance Company, Order No.: 9585499, effective date of December 27, 2021 at 5:00 PM.

Survey not valid without the signature and the original raised seal of a Florida Licensed Surveyor and Mapper.

This survey is made for the exclusive use of the current owners of the property and also those who purchase, mortgage or guarantee the title thereto within one (1) year from latest date shown hereon.

I hereby certify that the foregoing represented hereon meets the requirements of Chapter 117, 41, 100d Administrative Code.

No. 4601
STATE OF
JOHN O. BRENDI
Florida Supreme Court Commission No. 4601
Certificate of Registration No. 760

JOHN C. BRENDLA AND ASSOCIATES, INC.
Professional Land Surveyors and Mappers

JCB

4015 82nd Avenue North
Pinellas Park, Florida 33781
Telephone (727) 576-7546
Facsimile (727) 577-9932

BOUNDARY SURVEY
WITH IMPROVEMENTS
ELEVATIONS AND TREES

#102 8TH AVENUE
ST. PETERSBURG BEACH, FL

No.	DESCRIPTION	DATE
1.	REVISED CERTIFICATIONS	3/03/22
2.	REMOVED EASEMENT NOTE	3/04/22
3.	REVISED CERT NAME	3/10/22
4.	UPDATED INTERIOR IMPROVEMENTS ONLY	10/17/23

FB: 951A PG: 33-35
Job Number: 1808-17A
Survey Date: 1/14/22
Drawn: DS
Checked: JOB

Swimming Pool Rules

1. No food or beverages in the pool or on pool wet deck. Commercially bottled water in plastic bottles is allowed on the pool wet deck for pool patron hydration.
2. No glass or animals within fenced pool area (or 50' from unfenced pool).
3. Bathing Load: 20 persons.
4. Pool Hours: DAWN to DUSK
5. Shower before entering pool.
6. DO NOT SWALLOW THE POOL WATER.

NO DIVING
POOL MAXIMUM DEPTH: 5 FEET

POOL REGULATIONS SIGN DETAILS

1. All letters shall be a MIN. of 1" in height, except "NO DIVING" shall be 4" high and "POOL MAXIMUM DEPTH: 5 FEET" shall be 2" high.
2. Sign shall be legible from the pool deck.
3. The sign shall contain at a minimum information in FBC 454.1.2.3.5 and rule 64E-9.008 (6), FAC.

REQUIRED POOL SIGNAGE

SCALE: N.T.S.

RESTROOMS WITHIN 200' OF POOL

SCALE: 1" = 30'

GENERAL NOTES FOR POOL

1. This POOL will serve 9 transient rental units for LA TORTUGA making application for initial construction permit.
2. Code Compliance: 7th Ed. (2020) Florida Building Code, Section 454, Florida Admin Code (2016 64E-9, FAC), Florida Fire Prevention Code (FFPC) 7th Edition, Florida Administrative Code (F.A.C.) and Florida State Statute (F.S.) NFPA 1 Fire Code, NFPA 101 Life Safety Code, and current adopted codes.
3. Electrical equipment wiring & installation including the grounding of pool components shall conform to the 2017 edition of the NFPA 70, National Electrical Code (NEC) and the 7th Ed. (2020) FBC Building Chapter 27. Written evidence shall be provided from the electrical contractor of compliance with the National Electrical Code.
4. Overhead service wiring shall not pass within an area extending a distance of 10 feet horizontally away from the inside edge of the pool walls.
5. Provision shall be made for storage of chemicals under roof where access is restricted from unauthorized persons. (Provided by owner).
6. Access to pool deck must meet ADA requirements.
7. No pool tile smaller than 2" on a side shall be used.
8. Pool structure shall be constructed of concrete, watertight, free from structural cracks, & shall have a nontoxic, light in color, smooth, slip resistant finish.
9. Floors and walls shall be white or pastel in color and shall have the characteristics of reflecting rather than absorbing light. The finish coating shall have a dry lightness level (DLE value) of 80.0 or greater and a wet luminous reflectance value (WLR value) of 50.0 or greater, as determined by test results provided by the manufacturer, utilizing testing methodology from American Standard ASTM D4086, ASTM E1477, ASTM E1347.
10. Pool wet decks shall have a min. unobstructed width of 4' around the perimeter of the pool, pool curb, ladders, hand rails, & shall be constructed of concrete or other nonabsorbent material having a smooth slip resistant finish. Pits and crevices more than 3/16" deep not allowed.
11. The pool wet deck shall be uniformly sloped at a min. of 2% to a max. of 4% away from the pool or to deck drains to prevent standing water. Wet deck finishes shall be designed for such use & installed in accordance with manufacturer's specifications.
12. Food or drink service facilities shall not be located within 12' of the water's edge.
13. A min. of (1) rinse shower shall be provided on the deck within the perimeter of the pool, spa, or interactive water feature.
14. Vertical clearance above the pool deck shall be at least 7 feet.
15. Contractor to field route piping & connect to existing using best practices & shortest runs following schematic shown on plans. Where possible eliminate high points in piping, place vent line(s) only if necessary.
16. Contractor to ensure that any landscape irrigation water that wets the wet deck area of the pool, the pool itself, enters the collector tank, or wets an interactive water feature must be potable water from a public water source. If reclaimed water is used for irrigation within 100' of the waters edge, drip or soaker hoses must be used, and signs posted notifying pool patrons that reclaimed water is in use and is not to be consumed.
17. Only NSF60 approved chemicals shall be provided.
18. The pool shall NOT be open for swimming at night unless the requirements for lighting, as specified in FBC 454.1.4.2, and rule 64E-9.008 (7), FAC, are met.
19. If settling or weathering occurs that causes standing water on the pool deck, the original slopes shall be restored and/or corrective drains installed.
20. A portable or robotic vacuum system shall be provided. During use of the vacuum system the pool shall be closed to all bathers.

IF FIELD CONDITIONS DO NOT ALLOW CONSTRUCTION AS SHOWN ON THESE PLAN(S), OR THE CONTRACTOR CHOOSES TO USE DIFFERENT EQUIPMENT OR METHODS, CONTACT THE ENGINEER FOR REVIEW & MODIFICATION.

SANITARY FACILITY REQUIREMENTS

1. Sanitary facilities shall be provided & labeled for each sex & must be located within a 200' walking distance of the nearest water's edge of each pool or spa. (1) ea. of a urinal, water closet, & lavatory. The women's restroom shall have a water closet & (1) lavatory.
2. For pools up to 2,500 square feet the min. fixture sets are: (1) ea. of a urinal, water closet, & lavatory. The women's restroom shall have a water closet & (1) lavatory.
3. Outside access to facilities shall be provided for each sex & shall be visible from any portion of the pool deck. Signs shall be provided showing directions to the facilities.
4. Directions to sanitary facilities shall be legible from any portion of the pool deck with letters a min. 1 inch high.
5. Sanitary facility floors & walls shall be constructed of concrete or other nonabsorbent material with a smooth slip resistant finish.
6. Carpets, duckboards, & other non-slip mats shall be provided in the sanitary facilities.
7. Sanitary facility floor, walls, and ceiling shall be finished with a smooth slip resistant finish.
8. A hose bib with air will be provided within 25' of restrooms to allow for ease of cleaning.
9. Intersection of floor & wall must be covered.
10. Diaper changing tables shall be provided at facilities that cater to families with small children.
11. Restroom doors that do not open outside, shall be within 50 ft of the doors to enter the building.

PROTECTIVE BARRIER / FENCE NOTES

1. The fence/barrier must be at least 4 feet high on the outside.
2. The fence/barrier may not have any gaps, openings, indentations, protrusions, or structural components that could allow a young child to crawl under, squeeze through, or climb over the barrier.
3. The fence/barrier must be placed around the perimeter of the pool deck and must be separate from any fence, wall, or other enclosure surrounding the yard unless the fence, wall, or other enclosure or portion thereof is situated on the perimeter of the pool, is being used as part of the barrier, and meets the barrier requirements of this section.
4. Gates that provide access to swimming pools must open outward away from the pool and be self closing and equipped with a self latching locking device. The release mechanism must be located on the pool side of the gate and so placed that it cannot be reached by a young child over the top or through any opening or gap (minimum 54" above deck, or 3' below top of gate if on pool side).
5. In lieu of gates as stated above, access points from public spaces may be through doors meeting the same self closing & latching requirements as the gate. Operable parts for these access point doors shall be between 42" to 48" from the finished walking surface.
6. A wall of a cabana or equipment room may serve as part of the barrier.
7. A barrier may not be located in a way that allows any permanent structure, equipment, or similar object to be used for climbing the barrier.
8. Instead of a fence, permanent natural or man-made features such as bulkheads, canals, lakes, navigable waterways, etc., adjacent to a pool may be permitted as a barrier when approved. When evaluating such barrier features, the applicable governing body may perform onsite inspections, and review evidence, such as surveys, aerial photographs, water management agency standards and specifications, and any other similar documentation to verify at minimum, the following: the barrier feature is not subject to natural changes, deviations, or alterations and is capable of providing an equivalent level of protection as that provided by a structure, and the barrier feature clearly impedes, prohibits or restricts access to the pool.
9. Access from dwelling units shall be through self-closing & latching lockable gates meeting all criteria as #4 above.
10. If the dwelling unit access gate is self closing & latching and is also self-locking via key lock, electronic opener or integral combination lock, then the operable parts of such devices shall be a 34" to 48" above the finished walking surface.

FBC 454.1.1 MIN. REQD. SIZING		
BATHER RATIO	# LIVING UNITS	BATHERS
TRANSIENT (1:5)	9	2
NON-TRANSIENT (1:7)	0	0
TOTAL REQD # BATHERS (BL)		2
MIN. REQD. FLOWRATE (BL x 5 GPM)	10	GPM
MIN. REQD. SQ. FT. (BL x 20 SF)	40	SF
POOL		
PERIMETER	116 LF	FLOW 100 GPM
AREA	720 SF	BATH LOAD 20
VOLUME	19496 GAL	TURNOVER 3.2 HRS



THESE PLANS COMPLY WITH 7TH ED. (2020) FBC SECTION 454.1

Digitally signed by
James K Kimes
DN: c=US, o=KIMES
ENGINEERING AND
MANAGEMENT
SERVICES INC,
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AC5, cn=James K Kimes
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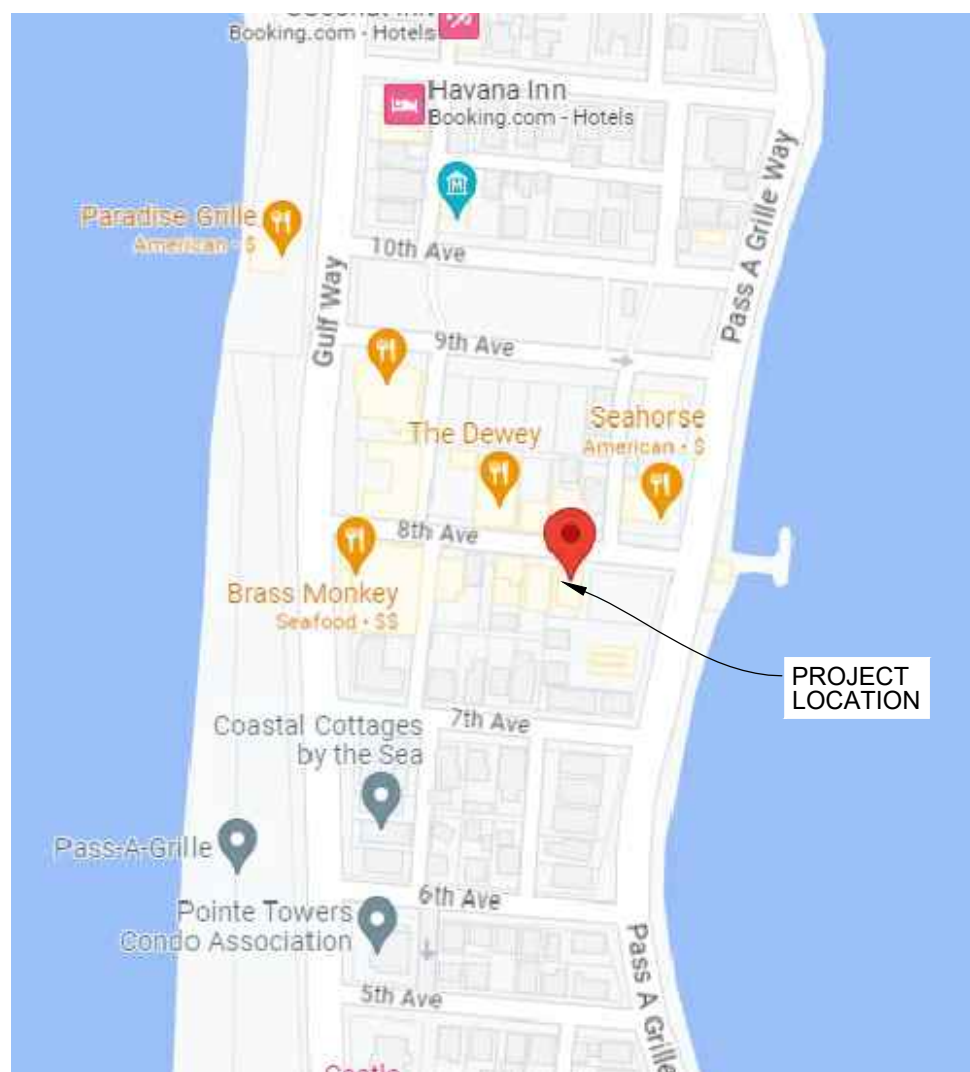
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1004.1.1 - OCCUPANT LOADS	FBC	NFPA
SWIMMING POOL WATER SURFACE(S)	/50: 14	/50: 14
POOL (720) SF		
SWIMMING POOL DECK	1172 SF /15: 79	/30: 40
CALCULATED OCCUPANTS:	93	54
MIN. (2) REQD EXITS		

- NOTES:
- POOL DECK FENCING BY OTHER PERMIT & CONTRACTOR
 - POOL GATE PANIC HARDWARE (BY CRASH BARS) REQUIRED WHERE OCCUPANCIES ARE GREATER THAN 300 (BY FBC) OR GREATER THAN 100 (BY NFPA) CALCULATIONS
 - MEASUREMENTS SHOWN ON SAFETY PLAN ARE TRAVEL DISTANCES IN FEET

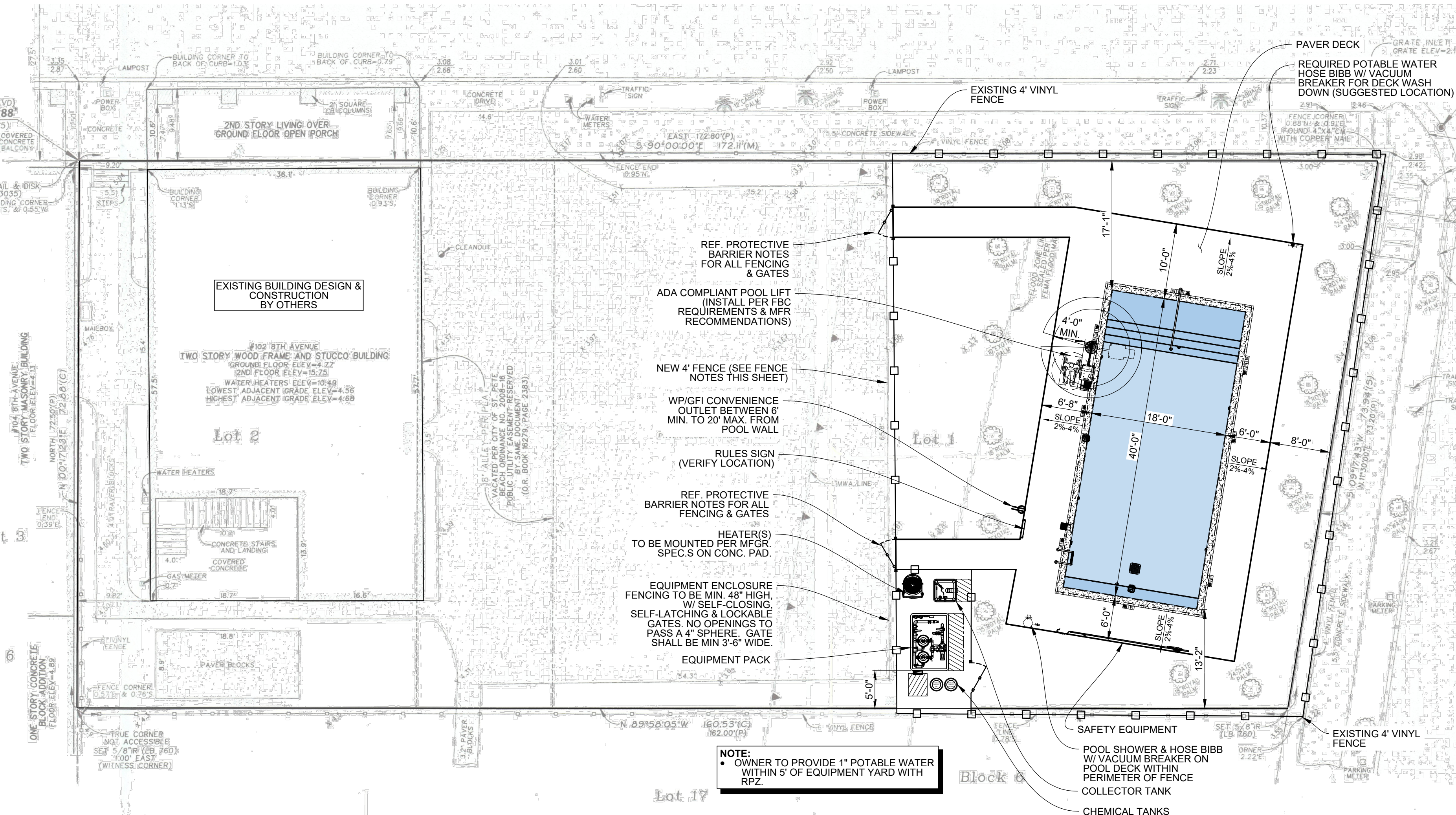
OCCUPANTS & LIFE SAFETY PLAN

SCALE: 1" = 30'



VICINITY MAP

SCALE: N.T.S.



PROPOSED SITE PLAN

SCALE: 1"=10'

LA TORTUGA
102 8TH AVE
ST. PETERSBURG BEACH, FL
POOL
GENERAL SPECIFICATIONS AND LOCATION

SHEET
X-001
SHEET 1 OF 4

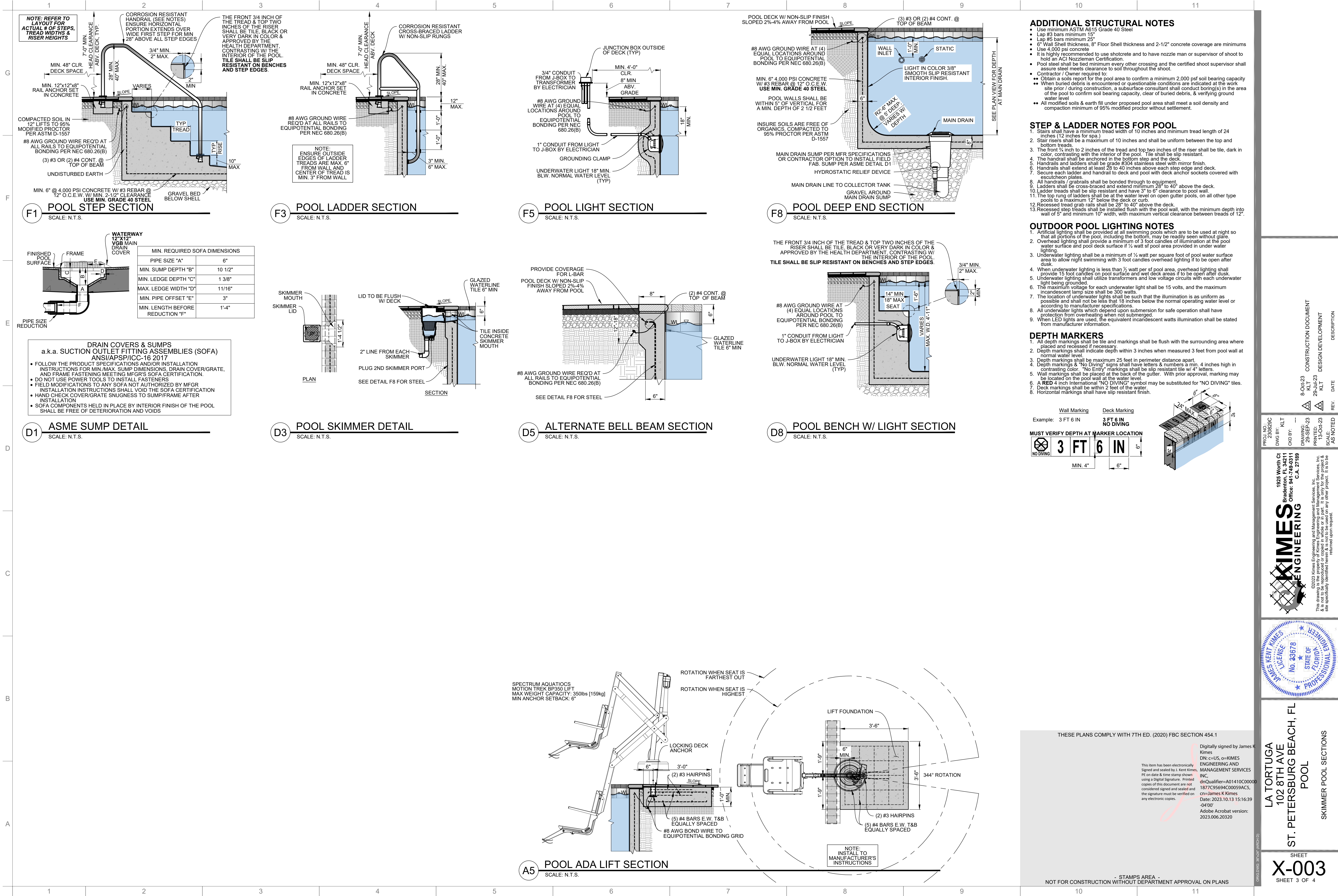
KIMES
ENGINEERING
1925 Worth Ct
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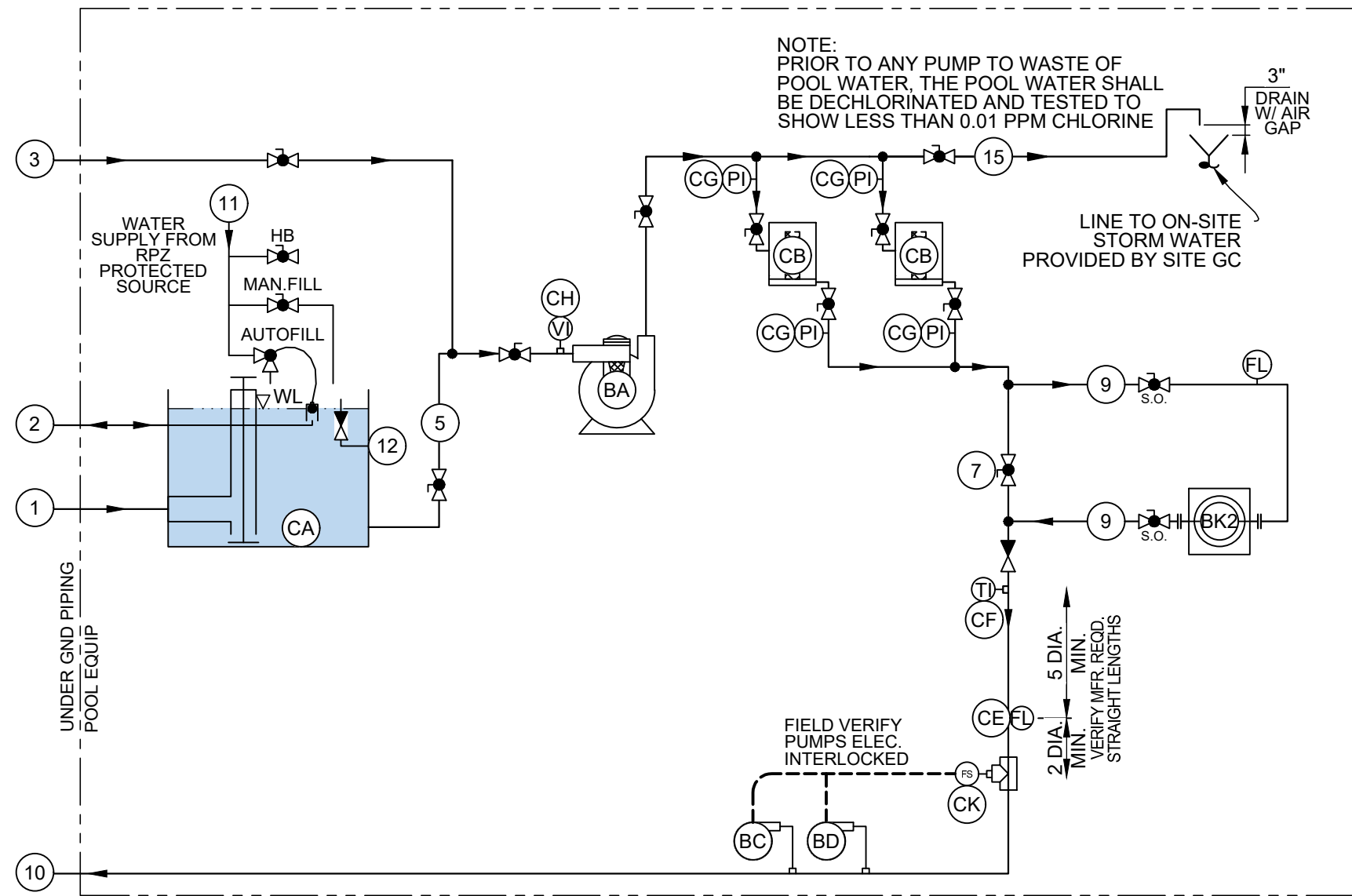
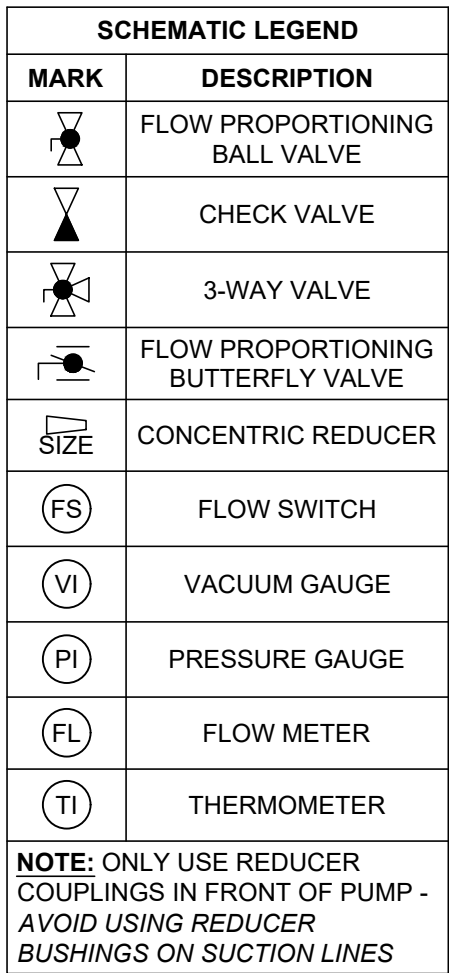
JAMES KIMES
LICENSE
No. 83678
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CONSTRUCTION DOCUMENT
DESIGN DEVELOPMENT
REV. DATE
8-Oct-23
29-Jul-23
KLT
KLT
KLT

PROJ. NO.: 230829C
DWG BY: KLT
CHK BY: --
DRAWING: 29-SEP-23
PRINTED: 13-Oct-23
SCALE: AS NOTED

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SCALE: N.T.S.

POOL PIPING LABEL	DESCRIPTION
1	MAIN DRAIN 6" (1.1 fps @ 100 gpm)
2	STATIC EQUALIZER 2"
3	SKIMMER 2" (5.7 fps @ 60 gpm)
	PUMP SUCTION
5	FROM TANK 3" (4.3 fps @ 100 gpm)
7	HEATER BYPASS 2.5"
	MANIFOLD TO HEATERS)
9	INLET/OUTLET 2"
10	FILTERED RETURN 2.5" (6.7 fps @ 100 gpm)
	TANK FILL
11	POTABLE WATER LINE 1"
12	TANK OVERFLOW LINE 2"
13	TANK DRAIN 2"
14	TANK TO FILTER 2"
15	PUMP TO WASTE 2"

SCALE: N.T.S.

SCALE: N.T.S

1. The main drain grate shall be at the deepest point of the pool and the depth shall not be more than 3" from the bottom of the pool.
2. Plastic pipe exposed to sunlight shall be coated for UV protection.
3. Plastic Pipe shall have NSF-PW seal of approval.
4. Material of solar and other heaters shall be nontoxic and acceptable for use with potable water.
5. Wall inlets shall be directionally adjustable and do not protrude into the pool.
6. Material of wastewater water supply shall conform to local and County requirements.
7. Pool makeup water supply shall be from an approved potable water system and shall have a backflow preventer.
8. Chlorine and pH adjustment feeders shall be electrically interlocked with the operation of the recirculation pump.
9. The section of the gutter (if used) shall be uniformly level with a maximum tolerance of 1/4" between high and low areas.
10. When flow is split within equipment area, provide equal pipe lengths & fittings from split to each outlet.
11. Floor returns (if used) shall be flush with pool surface and flow adjustable.
12. "Wall inlets (if used) shall be minimum 12" from the bottom of the pool.
13. Spacing between 45 SFC vacuum DE elements shall be min 1.25".

2. Equipment designated by the manufacturer for outdoor use may be located in an equipment enclosure.
3. All pipe & fittings shall be schedule 40 PVC per ASTM D1785 and NSF approved and stamped for potable water applications. All joints to be solvent welded per ASTM D2885.
4. Equipment enclosures shall be protected from prolonged sunlight exposure must be coated to protect it from ultraviolet light degradation.
5. An equipment area shall be surrounded with a fence at least 4 ft high on all sides not containing any electrical equipment. The fence shall be constructed of solid panels and self-latching gate with a locking device shall be provided if necessary for access.
6. All fencing or installed gates, shall be at least 4 ft high on all sides & using members spaced at 4 ft.
7. An equipment room shall be protected on at least three sides and overhead. The fourth side may be a gate, fence, or open if otherwise protected from unauthorized entrance.
8. An equipment room shall be protected on all four sides from unauthorized access.
9. This access security shall be installed on all pool equipment areas.
10. Equipment enclosures shall be constructed of noncombustible material, other nonabsorbent material having a smooth slip resistant finish and shall have positive drainage, including a sump pump if necessary.
11. An equipment enclosure or room shall be heated, not contained in an equipment enclosure or room shall necessitate a fenced equipment area as described above.
12. Equipment enclosures or rooms shall have either forced draft or cross ventilation.
13. Equipment enclosures or rooms shall have a minimum of three feet by six feet an exit shall provide easy access to the equipment.
14. A hose bibb with vacuum breaker shall be located in the equipment room or area.
15. Equipment enclosures or rooms shall have a minimum of 10 square feet of working space in front of equipment to access & perform routine operations. Contractor to verify the space requirements with mfr. recommendations prior to construction. Conflicts require that the manufacturer's recommendations prevail.
16. Clearance shall be provided for all equipment as prescribed by the manufacturer to allow normal maintenance operation and removal without disturbing other piping or equipment.
17. Equipment enclosures or rooms shall be protected from corrosion by the use of chemically resistant corrosion free or for storage of other items to the extent that entrance to the room for equipment operation is not impeded.
18. In rooms with fixed ceilings, the minimum height shall be 7 ft.
19. Equipment enclosures, rooms or areas shall be lighted to provide 30 foot candles of minimum light level.
20. All chemical solution tanks must be clearly labeled to indicate the contents.
21. Equipment rooms shall have forced draft or cross ventilation. All below-grade equipment enclosures shall have exterior forced draft ventilation or a fully covered door and powered intake within 6 inches of the floor.

1. PLUMBING: ALL 4" AND 6" FITTINGS SHALL BE WELDED. 400 LB. PER SQ. IN. PER ASTM A182, CLASS 2.0. APPROVED FOR STEEL PIPE OR FOR STEEL CAST IRON JOINTS TO BE SOLVENT WELDED PER ASTM D2885. ALL PLUMBING AND MATERIALS TO CONFORM TO THE FLORIDA BUILDING CODE 2020 - 7TH EDITION.
2. ELECTRICAL: ALL ELECTRICAL SHALL CONFORM TO THE FLORIDA BUILDING CODE 2020 - 7TH EDITION. ALL MATERIALS OF POOL COMPONENTS SHALL CONFORM TO NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 704, 2013 EDITION. ALL ELECTRICAL SHALL CONFORM TO ALL APPLICABLE LOCAL CODES. CHEMICAL FEED PUMPS TO BE INTERLOCKED WITH THE RECIRCULATION PUMP.
3. EQUIPMENT: ALL EQUIPMENT SHALL BE LISTED AND EQUIPMENT SHALL BE TESTED AND APPROVED BY THE PERTINENT MANUFACTURER USING THE NSF/ANSI STANDARD 50 AND LISTED AS APPROVED BY THE NSF.
4. THE DESIGN SHALL PROVIDE FOR PROTECTION OF ALL POOL DRAINS.
5. ALL PLASTIC PIPING SUBJECT TO PROLONGED SUNLIGHT EXPOSURE MUST BE COATED TO PROTECT IT FROM ULTRAVIOLET LIGHT DEGRADATION.
6. EACH SMALL HALL OR BATH SHALL HAVE A DRAINAGE SYSTEM FROM DIFFERENT SOURCES (E.G. POOL, SPA, OVERFLOW, SUMP PUMP) SHALL NOT BE TIED TOGETHER BUT MAY DISCHARGE INTO A COMMON SUMP OR RECEPTACLE.
7. THE DESIGN SHALL PROVIDE FOR A DRAINAGE SYSTEM FOR WASTE DISPOSAL SYSTEM ACCORDING TO LOCAL OR STATE CODES.
8. ALL COLLECTOR TANKS SHALL HAVE COVER INTERSECTIONS AND SLOPE TO THE MAIN DRAIN.
9. AN AUTOMATIC AND MANUAL WATER MAKEUP CONTROL MUST BE PROVIDED TO MAINTAIN THE WATER LEVEL AT THE LIP OF THE OVERFLOW GUTTER OR AT THE MOUNTING OF THE SKIMMER. THE SKIMMER SHALL BE LOCATED 18" TO 24" THROUGH AN AIR GAP INTO A FILL PIPE OR COLLECTOR TANK OVER THE RIM OF THE POOL.
10. A RATE OF FLOW INDICATOR, READING IN GPM, SHALL BE INSTALLED ON THE FILTER RETURN LINE. THE RATE OF FLOW INDICATOR SHALL BE PROPERLY CALIBRATED TO THE DESIGN FLOW RATE. THE RATE OF FLOW INDICATOR SHALL BE CALIBRATED FROM ONE HALF TO AT LEAST ONE-AND-ONE-HALF TIMES THE DESIGN FLOW RATE. THE CLEARANCES UPSTREAM AND DOWNSTREAM FROM THE RATE OF FLOW INDICATOR SHALL COMPLY WITH THE MANUFACTURER'S INSTALLATION SPECIFICATIONS.
11. THESE PLANS HAVE BEEN PREPARED IN COMPLIANCE WITH THE 2020 FLORIDA BUILDING CODE, 7TH EDITION.
12. SPACING BETWEEN 4.5 SF DE ELEMENTS SHALL BE MIN 1.25".

10430 66th STREET
ST PETERSBURG, FL
33782 (888) 426-8511

8-Oct-23 KLT	CONSTRUCTION DOCUMENT
29-Jul-23 KLT	DESIGN DEVELOPMENT
V. DATE	DESCRIPTION

KIMES
ENGINEERING

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Office: 941-749-0311
C.A. 27189

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A circular professional engineer seal for James Kent Kimes, State of Florida, License No. 33678. The seal features the text "JAMES KENT KIMES" at the top, "LICENSE" on the left, "No. 33678" in the center, "STATE OF FLORIDA" on the right, and "PROFESSIONAL ENGINEER" at the bottom. The seal is surrounded by a decorative border of small stars.

LA TORTUGA
102 8TH AVE
ST. PETERSBURG BEACH, FL

POOL

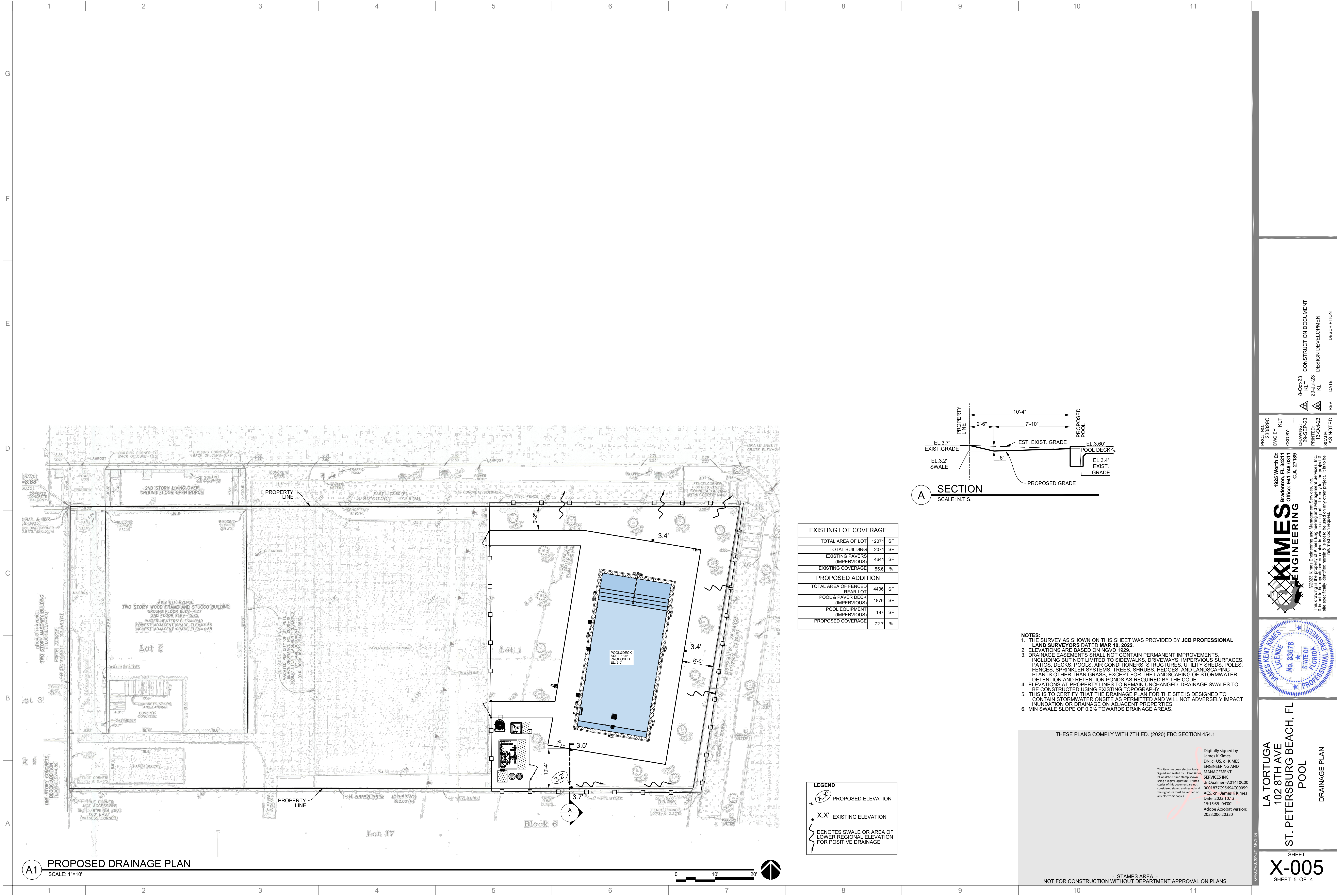
EQUIPMENT SPECIFICATIONS

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OF 4

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James K. Kimes, P.E.
Professional Engineer
No. 83678
State of Florida

LA TORTUGA
102 8TH AVE
ST. PETERSBURG BEACH, FL
POOL
DRAINAGE PLAN

SHEET
X-005
SHEET 5 OF 4

8-Oct-23
29-Jul-23
29-Sep-23
13-Oct-23
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CONSTRUCTION DOCUMENT
DESIGN DEVELOPMENT
SCHEMATIC
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