



NOTE: Grading Plan dated 07.07.2021 did not change when the pool design changed.

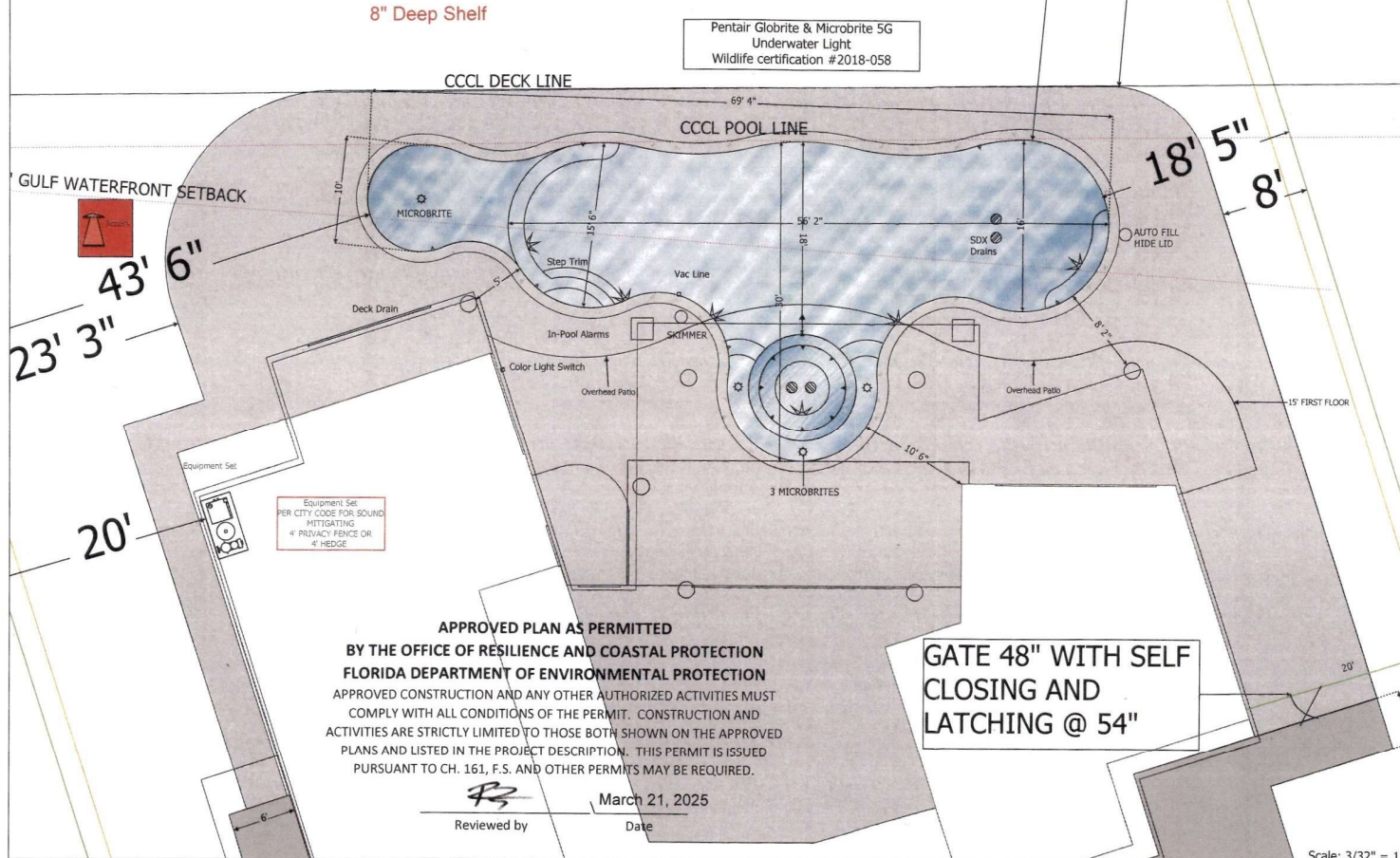
**POOL & SPA ARE AT GRADE**  
**DEP PROJECT REQUIRE SITE SPECIFIC ENGINEERING**  
**BUILDER PERMIT INCLUDES STATE PERMIT**

RECEIVED  
 February 27, 2025  
 OFFICE OF RESILIENCE  
 AND COASTAL PROTECTION  
 ME-1406 M.1



**6010 Cortez Rd. WEST**  
**Bradenton, FL 34210**  
**941-932-1414**  
**CPC-1458020**

Designed by Josh M. Johnson



NAME: PETERSON RESIDENCE 1/7/2025

ADDRESS: 6695 GULF OF MEXICO DRIVE

CITY: LONGBOAT KEY STATE: FL

PHONE: ZIP: 34228

EMAIL:

CELL:

**POOL SPECS**

SIZE: 30' X 69'4" SQFT: 1,030

DEPTH: 3'6" - 7' PERIMETER: 177

EST TOTAL GALLONS: 27,000 SKIMMERS: Yes 1

RETURNS: 6 INTERIOR MATERIAL: Mini

LIGHTS: 5 LED TURTLE SAFE TILE: Glass Pebble

SPECIAL:

NOTES: 4 TURTLE SAFE MICROBRITES ON SHELVES

**SPA SPECS**

SIZE: 8' X 8" SQFT: 50

DEPTH: 3'6" PERIMETER: 25

RAISED HEIGHT: 6" SPILLWAY: CHAMPAGNE

THERAPY JETS: 6 TILE: Glass

SPECIAL: 1 LED TURTLE SAFE

NOTES:

**DECK**

DECK TYPE: Travertine ELEVATION: Grade

TOTAL DECK SQFT: 3,598 PERIMETER:

RAISED BEAM: LIP STYLE: Travertine Coping

SPECIAL:

NOTES:

**EQUIPMENT**

POOL PUMP: Pentair Intelliflo 2ND PUMP: Pentair Intelliflo

FILTRATION: IC 40 FILTER SIZE: 2 CC RP 200

HEATER: T140 INLINE: Sweep Stub

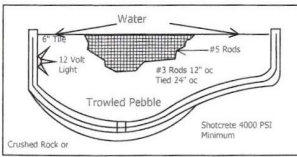
TIMER: INTELLICENTER GAS: 400,000 BTU

SPECIAL: Screen Logic

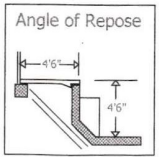
NOTES: IS 4 SPA SIDE BUTTON

MAR 26 2025  
 TOWN OF LONGBOAT KEY  
 Planning, Zoning & Building Date

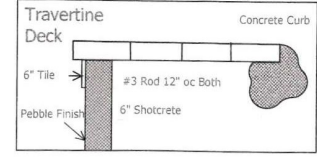
Customer Signature



#8 AWG BOND WIRE 4"-6" BELOW SUBGRADE 18"-24" FROM POOL BONDED @ 4 POINTS TO POOL SHELL NEC 680.26 (B)(2)(B)

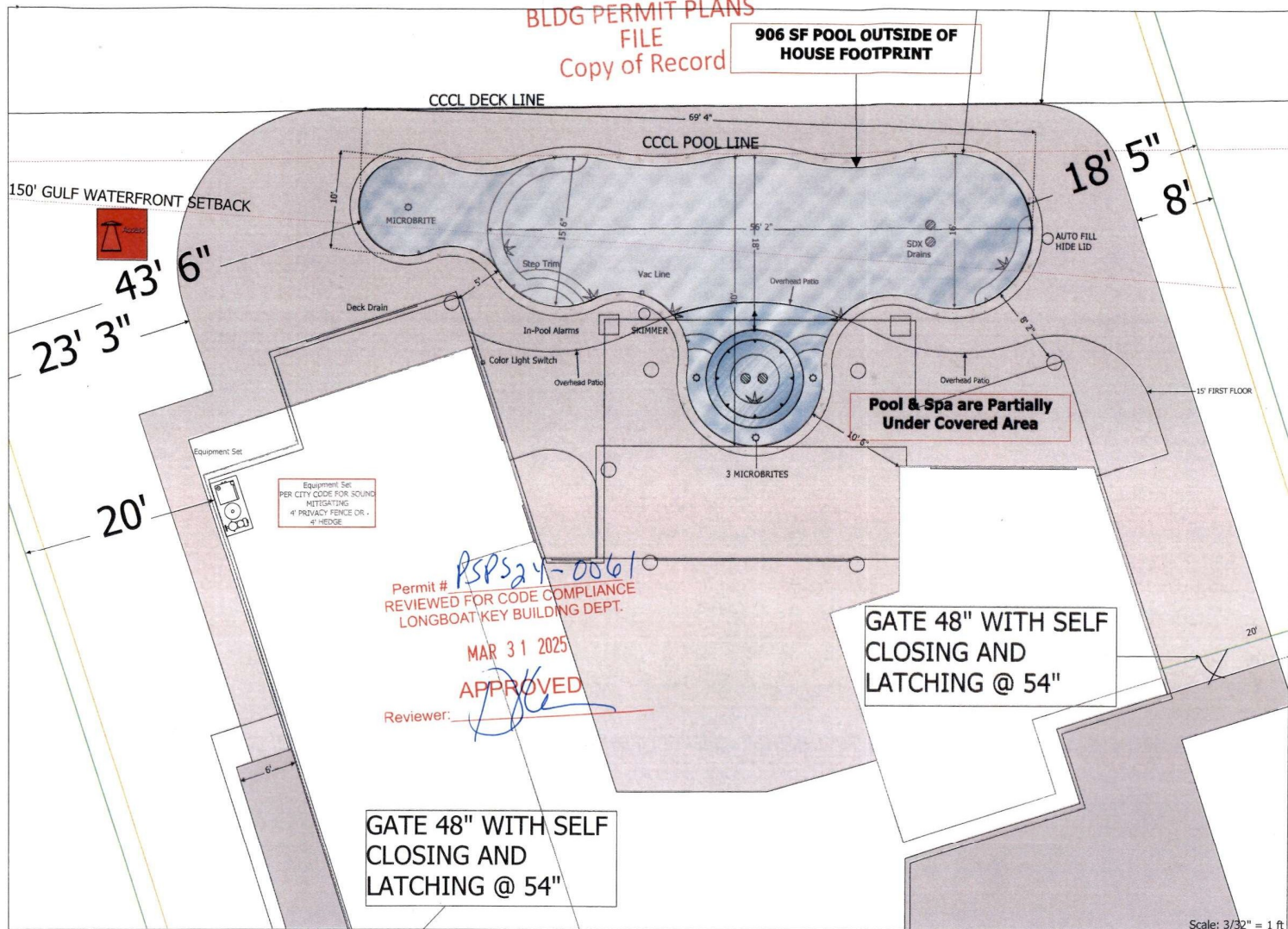


CHILD SAFETY ALARMS SHALL BE SYSTEM PREVIOUSLY APPROVED BY THE BLDG. DEPT., INSTALLED AND ACTIVE ON ALL DOORS AND WINDOWS AT TIME OF FINAL INSPECTION PURSUANT TO 424.2.17.1.9F.B.C.



**BLDG PERMIT PLANS**  
FILE  
Copy of Record

906 SF POOL OUTSIDE OF HOUSE FOOTPRINT



Pool & Spa are Partially Under Covered Area

GATE 48" WITH SELF CLOSING AND LATCHING @ 54"

GATE 48" WITH SELF CLOSING AND LATCHING @ 54"

Permit # *RSPS24-0061*  
REVIEWED FOR CODE COMPLIANCE  
LONGBOAT KEY BUILDING DEPT.  
MAR 31 2025  
APPROVED  
Reviewer: *[Signature]*

Equipment Set  
PER CITY CODE FOR SOUND MITIGATING  
4" PRIVACY FENCE OR  
4" HEDGE

**6010 Cortez Rd. WEST**  
**Bradenton, FL 34210**  
**941-932-1414**  
**CPC-1458020**

Designed by Josh M. Johnson

NAME: PETERSON RESIDENCE 3/24/2025  
ADDRESS: 6695 GULF OF MEXICO DRIVE  
CITY: LONGBOAT KEY STATE: FL  
PHONE: \_\_\_\_\_ ZIP: 34228  
EMAIL: \_\_\_\_\_  
CELL: \_\_\_\_\_

**POOL SPECS**

SIZE: 30' X 69'4"	SQFT: 1,030
DEPTH: 3'6" - 7'	PERIMETER: 177
EST TOTAL GALLONS: 27,000	SKIMMERS: Yes 1
RETURNS: 6	INTERIOR MATERIAL: Mini
LIGHTS: 5 LED TURTLE SAFE	TILE: Glass Pebble
SPECIAL: PARTIALLY UNDER COVERED AREA	
NOTES: 4 TURTLE SAFE MICROBRITES ON SHELVES	

**SPA SPECS**

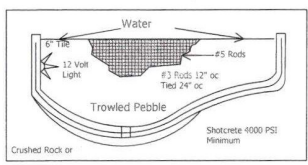
SIZE: 8' X 8'	SQFT: 50
DEPTH: 3'6"	PERIMETER: 25
RAISED HEIGHT: 6"	SPILLWAY: CHAMPAGNE
THERAPY JETS: 6	TILE: Glass
SPECIAL: 1 LED TURTLE SAFE	
NOTES: UNDER COVERED AREA	

**DECK**

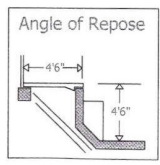
DECK TYPE: Travertine	ELEVATION: Grade
TOTAL DECK SQFT: 3,598	PERIMETER: _____
RAISED BEAM: _____	LIP STYLE: Travertine Coping
SPECIAL: _____	
NOTES: _____	

**EQUIPMENT**

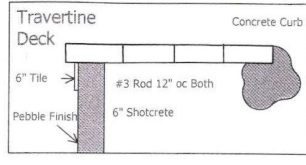
POOL PUMP: Pentair Intelliflo	2ND PUMP: Pentair Intelliflo
FILTRATION: IC 40	FILTER SIZE: 2 CC RP 200
HEATER: T140	INLINE: Sweep Stub
TIMER: INTELLICENTER	GAS: 400,000 BTU
SPECIAL: Screen Logic	
NOTES: IS 4 SPA SIDE BUTTON	



#8 AWG BOND WIRE 4"-6" BELOW SUBGRADE 18"-24" FROM POOL BONDED @ 4 POINTS TO POOL SHELL  
NEC 680.26 (B)(2)(B)



CHILD SAFETY ALARMS SHALL BE SYSTEM PREVIOUSLY APPROVED BY THE BLDG. DEPT., INSTALLED AND ACTIVE ON ALL DOORS AND WINDOWS AT TIME OF FINAL INSPECTION PURSUANT TO 424.2.17.1.9F.B.C.

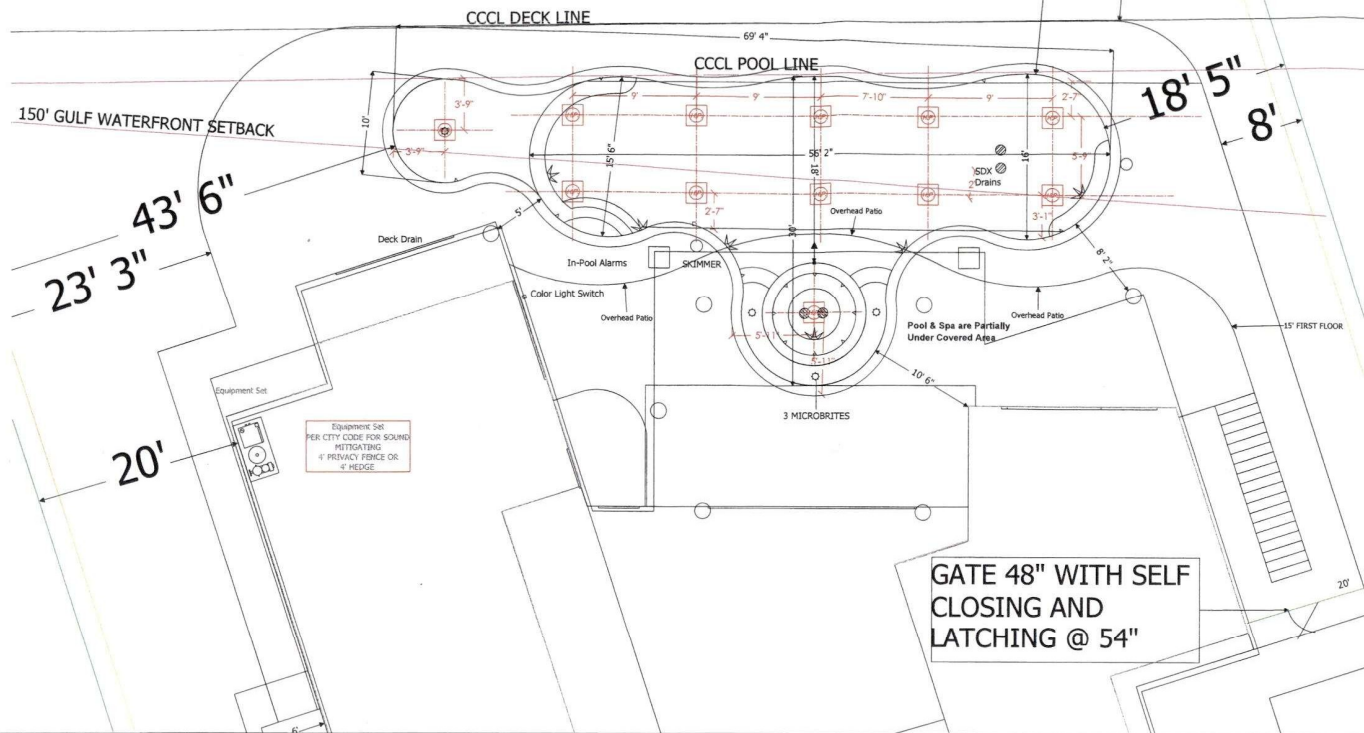


**RECEIVED**

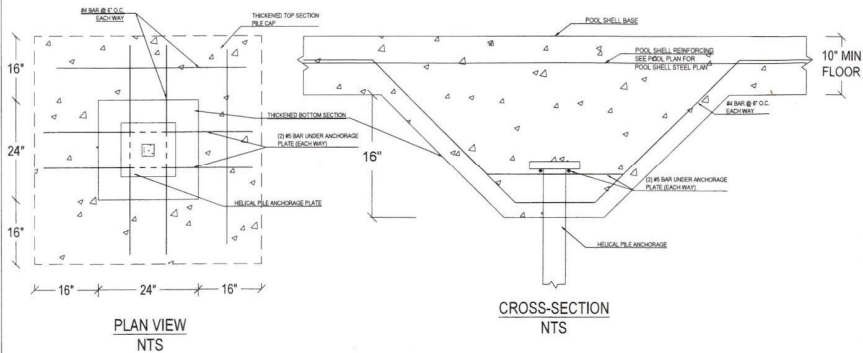
MAR 26 2025  
TOWN OF LONGBOAT KEY  
Planning, Zoning & Building

Customer Signature \_\_\_\_\_ Date \_\_\_\_\_





1 PROPOSED HELICAL PILE LOCATION PLAN VIEW  
SCALE: 1/4" = 1'



1-A HELICAL TENSION RESISTANCE PILE DETAIL  
SCALE: NTS

**HELICAL PILE DESIGN:**

PILE TYPE: CHANCE BRAND HELICAL PILE, GALVANIZED (OR EQUIVALENT APPROVED BY EOR)

SHAFT MATERIAL: SSS, 1 1/2" x 1 1/2" SOLID SQUARE SHAFT

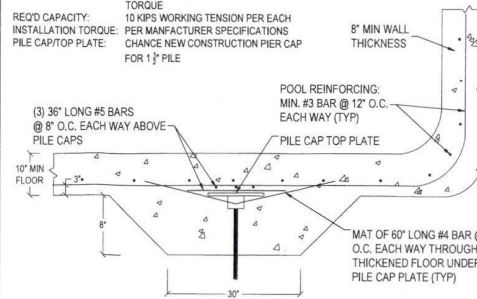
HELIX DESIGN: 8" / 10" HELICES

PILE LENGTH: 10-15' + LENGTH TO MEET INSTALLATION TORQUE

REQ'D CAPACITY: 10 KIPS WORKING TENSION PER EACH

INSTALLATION TORQUE: PER MANUFACTURER SPECIFICATIONS

PILE CAP/TOP PLATE: CHANCE NEW CONSTRUCTION PIER CAP FOR 1 1/2" PILE



1-B HELICAL PILE CONNECTION DETAIL  
SCALE: NTS

**NOTES:**

- EXCAVATE UNSUITABLE, UNSTABLE, ORGANIC, OR UNCONSOLIDATED SUB-GRADE MATERIAL AND COMPACT THE AREA WHICH HAS BEEN CLEARED, THEN BACKFILL AND LEVEL WITH DENSE GRADE AGGREGATE SUITABLE FOR SUBBASE MATERIAL.
- THE CONTRACTOR SHALL FIELD VERIFY ALL OMISSIONS AND NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE PLANS OR CONFLICT WITH ON-SITE CONDITIONS.
- THE FINISHED DECK SHALL NOT HAVE VOIDS THAT EXCEED 1/2" AND HAVE NO SHARP EDGES.
- ALL JOINTS SHALL BE FILLED WITH MASONRY OR TONSA SAND.
- THE DECK SHALL SLOPE AT A MIN. 2% TO A MAX. 4% AWAY FROM THE POOL OR TOWARD THE DECK DRAINS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES.
- THE DECK MAY BE SEALED WITH A RECOMMENDED DEEP-PENETRATION PAVER SEALANT. (CHECK WITH MANUFACTURER AND HEALTH DEPARTMENT.)
- THE ENGINEER SHALL NOT BE HELD LIABLE FOR FAULTY MATERIALS AND INSTALLATION, IMPROPER SUBBASE, AND IMPROPER MAINTENANCE OF THE DECK.
- THE DECK SHALL CONFORM WITH THE FLORIDA BUILDING CODES, 2023 (8TH EDITION) AND WITH ALL APPLICABLE CITY AND/OR COUNTY ORDINANCES AND CODES.
- A EQUIPOTENTIAL BONDING GRID MUST COVER THE CONTOUR OF THE PERMANENTLY INSTALLED POOL AND SPA UNDER THE DECK, AN UNDERGROUND BONDING CONDUCTOR MADE A SINGLE #8 AWG BARE COPPER WIRE BURIED TO A MINIMUM DEPTH OF 4 TO 6 INCHES BELOW SUBGRADE, AND 18 TO 24 INCHES FROM INSIDE OF THE WALL OF A RESIDENTIAL SWIMMING POOL OR SPA AND BONDED TO THE POOL STEEL WITH #8 AWG BARE COPPER WIRE AT FOUR EQUAL PLACES AROUND THE POOL. FOR POOL WATER BONDING SEE NEC 680.26-C.
- ALL REINFORCING STEEL SHALL COMPLY WITH A.S.T.M 615 GRADE 40
- ALL POOL REINFORCING STEEL SHALL LAP MIN 25"

TNS Design & Consulting, LLC  
1901 S. Hwy 41 Bypass S  
Vero Beach, Florida 34993  
Phone: 888-222-7272  
www.tnsdesignandconsulting.com

THESE PLANS MAY NOT BE REPRODUCED OR COPIED WITHOUT THE WRITTEN PERMISSION OF TNS DESIGN & CONSULTING, LLC. ANY REPRODUCTION OF THESE PLANS WITHOUT THE WRITTEN PERMISSION OF TNS DESIGN & CONSULTING, LLC IS STRICTLY PROHIBITED. THE USER OF THESE PLANS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND OTHERS. TNS DESIGN & CONSULTING, LLC IS NOT RESPONSIBLE FOR ANY DAMAGE TO PROPERTY OR PERSONS CAUSED BY THE USE OF THESE PLANS.

SITE SPECIFIC DETAIL FOR:  
AMDG INVESTMENTS LLC  
(SCHMITZ) RESIDENCE  
206 COCONUT AVENUE  
ANNA MARIA, FLORIDA 34216  
PID# 7091-00-0006  
Section 18, Township 34 South, Range 16 East  
Manatee County, Florida



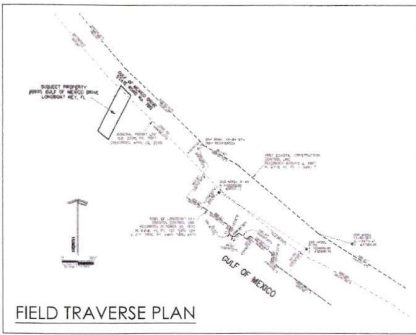
CONTRACTOR:	
TOM SANGER POOL & SPA LLC CPC# 1458020	
Revisions:	Description:
No:	POOL DECK DIMS
Date:	3/5/25
Job# 2024-TSP-6695-PETERSON	
Drawn By: TNS	
Checked By: TNS	
Sheet No. 1	

RECEIVED

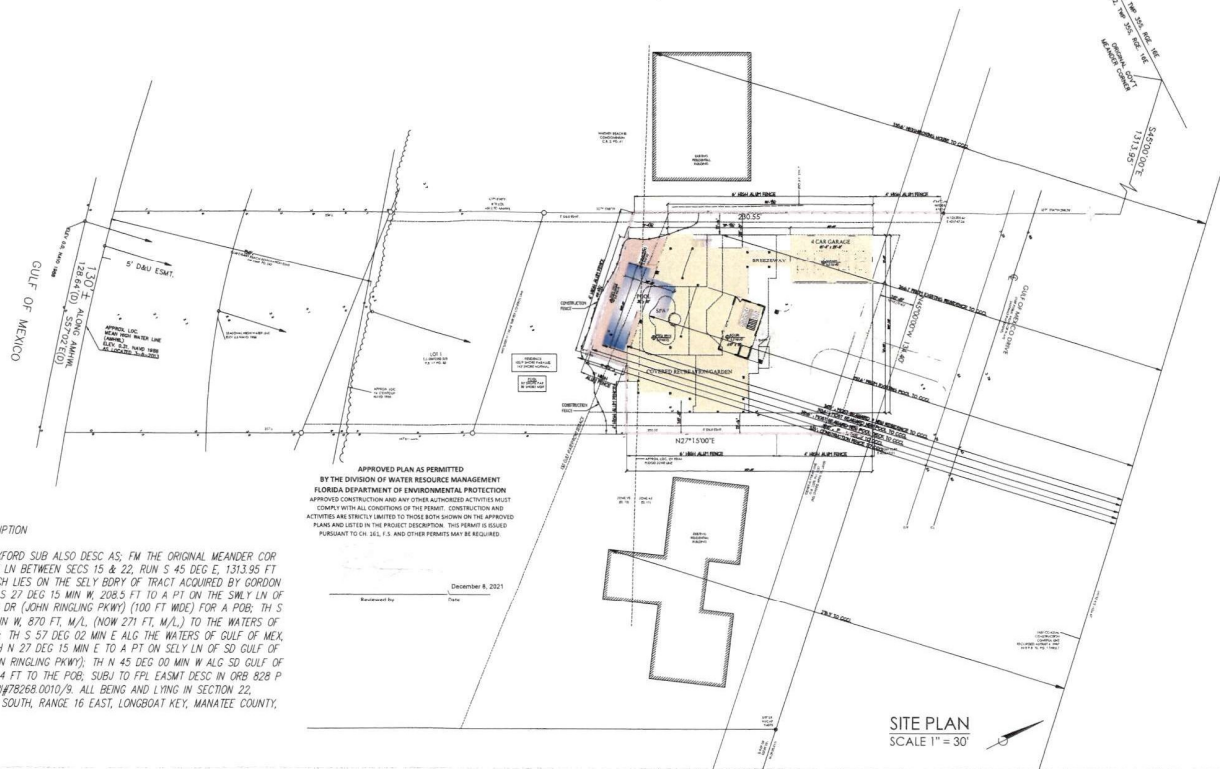
MAR 7 5 77PM

TOWN OF LONGWOOD

Planning, Zoning & Building



**RECEIVED**  
**July 26, 2021**  
 DIVISION OF WATER  
 RESOURCE MANAGEMENT  
**ME-1406**



**LEGAL DESCRIPTION**

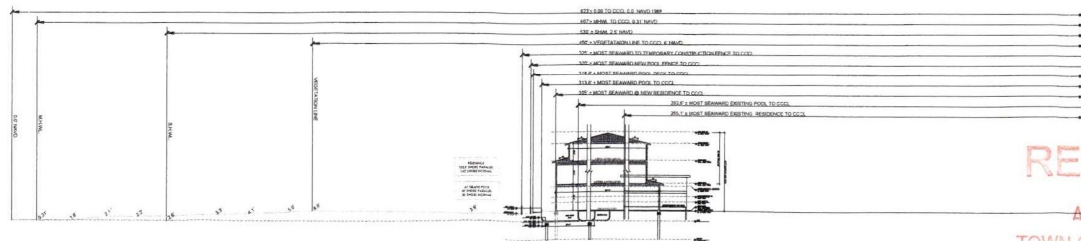
LOT 1 T J OXFORD SUB ALSO DESC AS; FM THE ORIGINAL MEANDER COR MARKING THE LN BETWEEN SECS 15 & 22, RUN S 45 DEG E, 1313.95 FT TO A PT WHICH LIES ON THE SELLY BDRY OF TRACT ACQUIRED BY GORDON WINTNEY; TH S 27 DEG 15 MIN W, 208.5 FT TO A PT ON THE SELLY LN OF GULF OF MEX DR (JOHN RINGLING PKWY) (100 FT WIDE) FOR A POB; TH S 27 DEG 15 MIN W, 870 FT, M/L, (NOW 271 FT, M/L) TO THE WATERS OF GULF OF MEX; TH S 57 DEG 02 MIN E ALG THE WATERS OF GULF OF MEX, 128.64 FT; TH N 27 DEG 15 MIN E TO A PT ON SELLY LN OF SD GULF OF MEX DR (JOHN RINGLING PKWY); TH N 45 DEG 00 MIN W ALG SD GULF OF MEX DR, 134.4 FT TO THE POB; SUBJ TO PPL CASMT DESC IN ORB 828 P 999 PRMOY PH78268 0010/8 ALL BEING AND LYING IN SECTION 22, TOWNSHIP 35 SOUTH, RANGE 16 EAST, LONGBOAT KEY, MANATEE COUNTY, FLORIDA.

APPROVED PLAN AS PERMITTED  
 BY THE DIVISION OF WATER RESOURCE MANAGEMENT  
 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 APPROVED CONSTRUCTION AND ANY OTHER AUTHORIZED ACTIVITIES MUST  
 COMPLY WITH ALL CONDITIONS OF THE PERMIT. CONSTRUCTION AND  
 ACTIVITIES ARE STRICTLY LIMITED TO THOSE BOTH SHOWN ON THE APPROVED  
 PLANS AND LISTED IN THE PROJECT DESCRIPTION. THIS PERMIT IS ISSUED  
 PURSUANT TO CH. 361.5, AND OTHER PERMITS MAY BE REQUIRED.

December 8, 2021  
 Drawn by: \_\_\_\_\_  
 Date: \_\_\_\_\_



**LINE OF CONSTRUCTION ARIAL**  
 NOT TO SCALE



**SITE CROSS SECTION**  
 SCALE 1" = 30'

**RECEIVED**  
 AUG 29 2024  
 TOWN OF LONGBOAT KEY  
 Planning, Zoning & Building

**Allison Kaffka Architect**  
 48021 124th Street West  
 Fort Office Bldg. 387  
 Conroe, Florida 34215  
 Phone: (841) 796-1984  
 Fax: (841) 796-8944  
 Lic #: CB 0004017



48021 124th Street West  
 Fort Office Bldg. 387  
 Conroe, Florida 34215  
 Phone: (841) 796-1984  
 Fax: (841) 796-8944  
 Lic #: CB 0004017

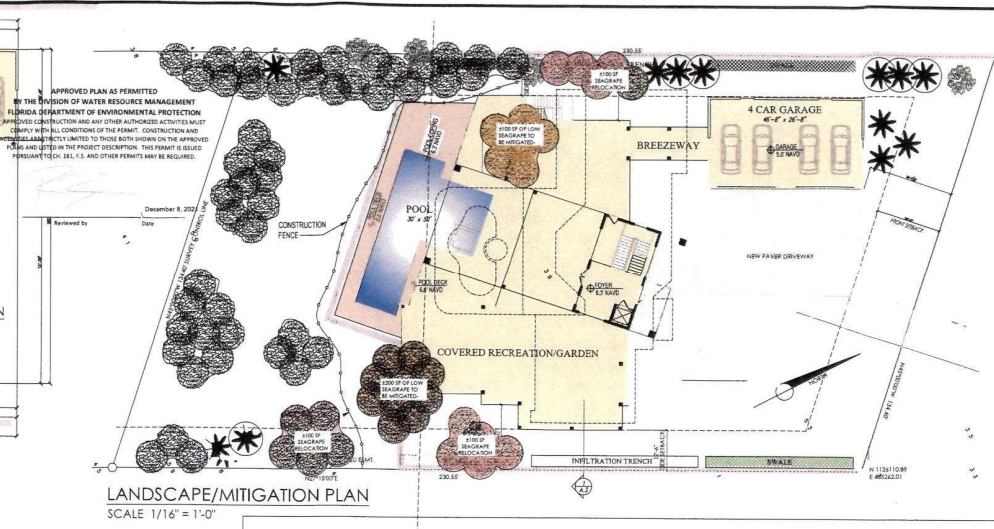
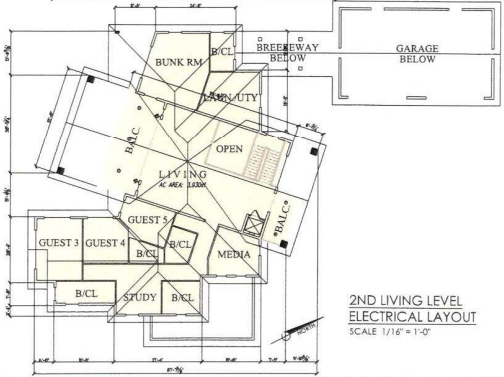
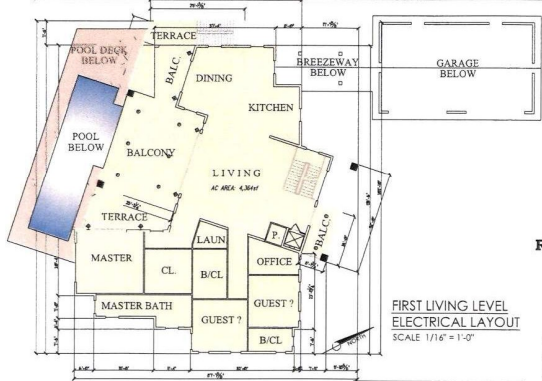
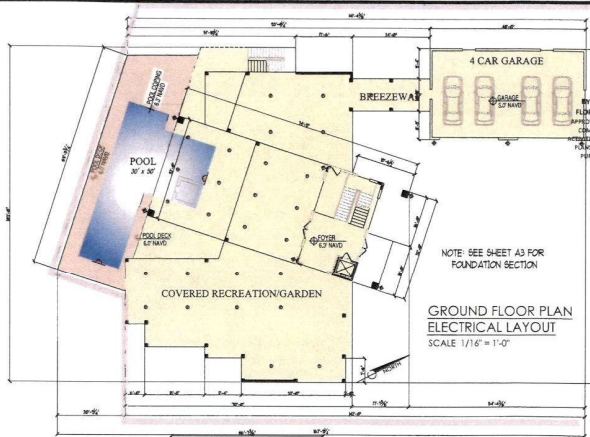


**PETERSON RESIDENCE**  
 6695 Gulf of Mexico Drive  
 Longboat Key, Florida  
**SITE PLAN & SECTION PLANS**  
 © 2021, Allison Kaffka Architect

REVISIONS	DATE

Date: 7-7-21  
 Scale: AS NOTED  
 Drawn: JAD

**A.1**



**LANDSCAPE LEGEND** NOTES: PROTECTIVE BARRERS TO BE USED ON EXISTING TREES TO REMAIN

QTY	SYMBOL	SCIENTIFIC NAME	COMMON NAME	STATUS	QTY	SYMBOL	SCIENTIFIC NAME	COMMON NAME	STATUS
6	(Symbol)	COCCOLOBA UVIFERA	LARGE SEAGRAPE TREE	EXISTING TO REMAIN	6	(Symbol)	SABLE PALMETTO	CABBAGE PALM	EXISTING TO REMAIN
3	(Symbol)	COCCOLOBA UVIFERA	4" TALL SEAGRAPE HEDGE	2,300 SF TO BE MITIGATED SEE PLAN FOR DETAILS	3	(Symbol)	SABLE PALMETTO	CABBAGE PALM	NEW
1	(Symbol)	COCCOLOBA UVIFERA	4" TALL SEAGRAPE HEDGE	EXISTING TO REMAIN		(Symbol)			LOCATION FOR LANDSCAPING TO BE RELOCATED-SEE PLAN FOR DETAIL

**RECEIVED**  
**July 26, 2021**  
**DIVISION OF WATER**  
**RESOURCE MANAGEMENT**  
**ME-1406**

**LIGHTING SCHEDULE**

SEE GROUND FLOOR ELECTRICAL LAYOUT

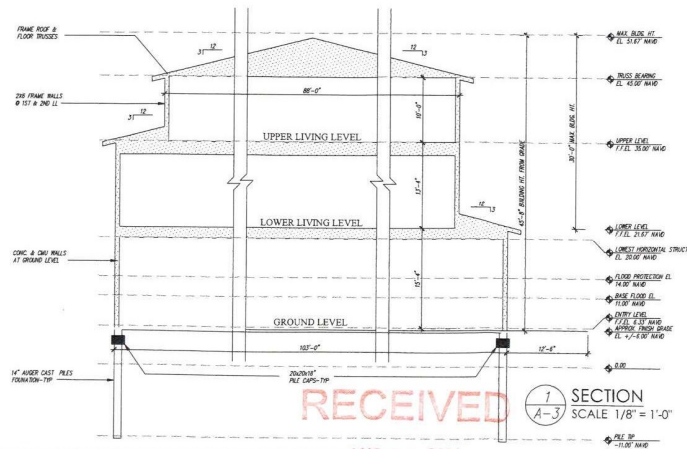
SYMBOL	FIXTURE NAME OR STOCK #	QTY	BULB WATTAGE & TYPE	TYPE OF MOUNT	AMOUNT Ht
(Symbol)	RECESSED CAN EURE PROGRESS LIGHTING E2AC-A1A7437-P-408-BE	28	4" TCP LED 12000K-800-RED 4" TCP LED 12000K-800-RED 4" TCP LED 12000K-4000-A-AMBER	Recessed Down Light	14'-0" NAVD
(Symbol)	WALL MOUNTED CYLINDER PROGRESS LIGHTING P3171-31	1	RED LED DOWNLIGHT BULB CATALOGUE # R0231 1-WATT SUPERIOR LIGHTING MIDDLE LIFE LIGHTING CERT. #20190109	WALL MOUNTED DOWN LIGHT	13' NAVD
(Symbol)	FL-01 PATH LIGHT SERIES CATALOG NUMBER FL-01 FOCUS INDUSTRIES CERT. NUMBER 20180441	0	AMBER LED FL-LED-CANALS-53P	DIRECTED DOWN	4' NAVD
(Symbol)	PENNAIR POOL AMBIERE A19421-100	3	POOL LIGHTING SHALL NOT EXCEED 1 FOOT CANDLE PER SF OF POOL AREA APPROVED BY THE DIVISION OF WATER RESOURCE MANAGEMENT	DIRECTED DOWN HORIZONTAL	4' NAVD

SEE FIRST LIVING LEVEL ELECTRICAL LAYOUT

SYMBOL	FIXTURE NAME OR STOCK #	QTY	BULB WATTAGE & TYPE	TYPE OF MOUNT	AMOUNT Ht
(Symbol)	WALL MOUNTED CYLINDER PROGRESS LIGHTING P3171-31	4	RED LED DOWNLIGHT BULB CATALOGUE # R0231 1-WATT SUPERIOR LIGHTING MIDDLE LIFE LIGHTING CERT. #20190109	WALL MOUNTED DOWN LIGHT	22' NAVD
(Symbol)	RECESSED CAN EURE PROGRESS LIGHTING E2AC-A1A7437-P-408-BE	6	4" TCP LED 12000K-800-RED 4" TCP LED 12000K-800-RED 4" TCP LED 12000K-4000-A-AMBER	Recessed Down Light	27' NAVD

SEE 2ND LIVING LEVEL ELECTRICAL LAYOUT

SYMBOL	FIXTURE NAME OR STOCK #	QTY	BULB WATTAGE & TYPE	TYPE OF MOUNT	AMOUNT Ht
(Symbol)	WALL MOUNTED CYLINDER PROGRESS LIGHTING P3171-31	2	RED LED DOWNLIGHT BULB CATALOGUE # R0231 1-WATT SUPERIOR LIGHTING MIDDLE LIFE LIGHTING CERT. #20190109	WALL MOUNTED DOWN LIGHT	33' NAVD
(Symbol)	RECESSED CAN EURE PROGRESS LIGHTING E2AC-A1A7437-P-408-BE	5	4" TCP LED 12000K-800-RED 4" TCP LED 12000K-800-RED 4" TCP LED 12000K-4000-A-AMBER	Recessed Down Light	34' NAVD



**Allison Kaffke Architect**  
Architect  
14825 124th Street West  
Palm Beach Gardens, Florida 33418  
Phone: (941) 795-1584  
Fax: (941) 795-9944  
Lic. #: CB 00014017

**WHITEHEAD CONSTRUCTION**  
ELEVATION CONTRACT

**PETERSON RESIDENCE**  
6695 Gulf of Mexico Drive  
Longboat Key, Florida  
**LANDSCAPE/MITIGATION PLAN**  
ELEVATION CONTRACT  
© 2021 Allison Kaffke Architect

REVISIONS: DATE

Scale: AS NOTED  
Drawn: JAD  
Piled On: \_\_\_\_\_

7/23/2021 10:32:57 AM





STONE OR TILE CAP SPILLOVER  
SPA COPING  
TOP OF SPA  
SPA WATER LEVEL  
TILE  
COMMON WALL  
INSIDE OF SPA  
POOL WATER LEVEL  
TILE  
INSIDE OF POOL  
NOTE: SPA SKIMMER IS NOT REQUIRED WHEN SPA 1.25' OR DEEPER IS USED

**OPTIONAL SPA SPILLOVER POOL/SPA COMMON WALL**  
NTS

TOP OF SPA BEAM  
TILE OR STUCCO  
DECK  
BONDING WIRE  
NOTE: IF TOP OF SPA IS MORE THAN 10" ABOVE THE DECK A STEP OR STEPS MUST BE PROVIDED MAX. 10" RISE PER STEP

**OPTIONAL RAISED BEAM DETAIL**  
NTS

PRESSURE RELEASE VALVE  
PRESSURE GAUGE  
HOSE END FOR WASTE AND WATER RECL. PUMP  
COIC. PAD  
WIR. AND LINT STRAINER  
FROM MAIN DRAIN  
GATE VALVES  
RETURN TO POOL  
PRESSURE RELIEF VALVE  
C.U.  
FILTER  
VALVE  
CHLORINATOR

**TYPICAL FILTER LAYOUT**  
NTS

**NOTES:**  
THE POOL FILTER AND ITS MATED COMPONENTS SHALL HAVE SUFFICIENT CAPACITY TO PROVIDE A COMPLETE TURNOVER OF THE POOL IN 12 HOURS OR LESS. PER FC 2023 ALL AREAS OF POOL WITH W.D. LESS THAN 60" OR 18" SHALL HAVE TURNOVER RATE OF 1 HOUR OR LESS  
ALL PIPING MATERIALS AND PUMPS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS  
ALL PIPE SIZES WILL BE SIZED IN ACCORDANCE WITH THE FLOW RATE OF THE SPECIFIED PUMP. PUMP CURVES MUST BE PROVIDED BY THE CONTRACTOR OR OWNER OF THE PROJECT  
WHEN THE PUMP IS LOCATED BELOW THE OVERLAP DIM OF THE POOL, A VALVE SHALL BE INSTALLED ON THE DISCHARGE OUTLET AND THE VALVE SHALL NOT BE MADE BETWEEN ANY UNDERGROUND LEADING LINE, STORM DRAIN, SEWER, DRAINAGE SYSTEM, SEEPAGE PIT OR SUBSOIL DRAINAGE LINE, AND ANY LINE CONNECTED TO A SWIMMING POOL, UNLESS APPROVED BY THE ADMINISTRATIVE AUTHORITY.  
DIRECT OR INDIRECT CONNECTIONS SHALL NOT BE MADE BETWEEN ANY UNDERGROUND LEADING LINE, STORM DRAIN, SEWER, DRAINAGE SYSTEM, SEEPAGE PIT OR SUBSOIL DRAINAGE LINE, AND ANY LINE CONNECTED TO A SWIMMING POOL, UNLESS APPROVED BY THE ADMINISTRATIVE AUTHORITY.

**ALL EQUIPMENT MUST BE MOUNTED ON A SUBSTANTIAL BASE IN A MANNER THAT WILL ELIMINATE STRAIN OR PIPING.**

GRADE  
SLOPE  
1 #5 BAR CONT.  
2 #5 BAR CONT.  
2 #5 BARS VERTICAL @ 4' O.C.  
2 #5 BARS CONT.

**FOOTER, DECK & RETAINING WALL DETAIL**  
NTS

**NOTES:**  
1. 6" x 6" #4 WIRE MESH OR FIBER MESH CONCRETE  
2. ALL REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GRADE 40  
3. A TOPPING OR COATING MUST BE APPLIED TO ALL FIBER MESH DECKS  
4. SLOPE GRADE AWAY FROM DECK  
5. 1/2" SCREENED VENT TO ATMOSPHERE IN A MANNER THAT THE VENT WILL NOT BE BLOCKED BY MICROBIOLOGICAL CONTAMINATION, DEBRIS BUILD-UP OR INSECT INFESTATION.  
6. THE VENT MUST BE LOCATED IN A PROTECTED AREA.  
7. THE MAXIMUM VACUUM WITH ONE DRAIN PLUGGED AND A BODY ENTRAPPED ON THE OTHER DRAIN NEVER EXCEEDS 4.5 INCHES OF MERCURY. THE ENTRAPMENT RELEASES IN LESS THAN 3 SECONDS.  
8. THE TWO MAIN DRAINS MUST BE SEPARATED BY A MINIMUM OF 3 FEET OR LOCATED ON TWO PLANES OR ONE EACH ON TWO SEPARATE VERTICAL WALLS.

SLOPE DECK  
COPING  
WATER LEVEL  
BONDING WIRE  
OPTIONAL SKIMMER  
SPA WALL  
OPTIONAL EQUALIZER  
OPTIONAL SKIMMER  
TO FILTER  
TO SPA WATER SPILLER INTO THE POOL

**SKIMMER DETAIL**  
NTS

**NOTES:**  
1. SKIMMERS SHALL BE CONNECTED TO DISCHARGE ONE THROUGH AND RECYCLE OTHER THROUGH RECYCLE OR DIRECT CONNECTION AND MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS  
2. SKIMMERS SHALL BE OPERATED AT A FLOW RATE GREATER THAN THE OPERATING FLOW RATE OF THE PUMP  
3. SKIMMERS SHALL BE PROVIDED WITH A PROTECTOR FOR THE SKIMMER HEAD AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS

TO SERVICE  
WATERPROOF SWITCH ON/OFF  
12 VOLT TRANSFORMER  
JUNCTION BOX  
PUMP MOTOR  
PUMP MOTOR  
OPTIONAL BLOWER MOTOR  
OPTIONAL BLOWER MOTOR  
8# AWG GROUNDING WIRES  
2# AWG GROUNDING WIRES

**ELECTRICAL DIAGRAM**  
NTS

**NOTES:**  
1. ALL ELECTRICAL WIRING AND EQUIPMENT SHALL COMPLY WITH CHAPTERS 42 & 45 OF THE 2023 FLORIDA BUILDING CODE  
2. ALL PUMPS AND ALL METALLIC PARTS WITHIN 8 FEET OF THE POOL MUST BE GROUNDED TO THE POOL'S STEEL WITH #8 CU. GROUNDING WIRE  
3. TIME CLOCKS SHALL BE INSTALLED ON PRIVATE POOLS SO THAT THE PUMP CAN BE SET TO RUN DURING OFF-PEAK ELECTRICAL DEMAND PERIODS AND CAN BE SET FOR THE MINIMUM TIME NECESSARY TO MAINTAIN THE WATER IN A CLEAR AND SANITARY CONDITION IN KEEPING WITH ALL APPLICABLE HEALTH STANDARDS  
4. ALL POOL AND SPA HEATERS SHALL BE EQUIPPED WITH AN ON/OFF SWITCH MOUNTED FOR EASY ACCESS TO ALLOW THE HEATERS TO BE SHUT OFF WITHOUT ADJUSTING THE THERMOSTAT SETTINGS, AND TO ALLOW RESTARTING WITHOUT RELEASING THE PILOT LIGHT.

HALVES ARE NOT ALLOWED ON THE VENT LINE.  
ATMOSPHERIC VENT ARRANGEMENT MUST BE COMPLIANT WITH 454.2.6.2 2023 FLORIDA BUILDING CODE  
WATER LEVEL  
4" TO 6"  
4" CONC. DECK SLOPE  
2 SUCTION OPENINGS WITH APPROVED ASME/ANSI COVERS SECURELY ATTACHED  
BONDING WIRE  
VENT PIPING MAX. UNDERWATER LENGTH OF VENT PIPING IS 30 FT.  
TO PUMP SUCTION  
OPTIONAL LINE  
8# @ 12" O.C. E.W.  
MAX. SUCTION PIPE VELOCITY IS 8 FEET PER SECOND

**TYP. SPA SECTION**  
NTS

**NOTES:**  
1. 1/2" SCREENED VENT TO ATMOSPHERE IN A MANNER THAT THE VENT WILL NOT BE BLOCKED BY MICROBIOLOGICAL CONTAMINATION, DEBRIS BUILD-UP OR INSECT INFESTATION.  
2. THE VENT MUST BE LOCATED IN A PROTECTED AREA.  
3. THE MAXIMUM VACUUM WITH ONE DRAIN PLUGGED AND A BODY ENTRAPPED ON THE OTHER DRAIN NEVER EXCEEDS 4.5 INCHES OF MERCURY. THE ENTRAPMENT RELEASES IN LESS THAN 3 SECONDS.  
4. THE TWO MAIN DRAINS MUST BE SEPARATED BY A MINIMUM OF 3 FEET OR LOCATED ON TWO PLANES OR ONE EACH ON TWO SEPARATE VERTICAL WALLS.

1.90" DIA. 4.055 WALL STAINLESS STEEL OR SCH. 40 PVC LADDER  
WATER LEVEL  
BONDING WIRE  
DECK  
SLOPE  
4" VARIES  
WEDGE ANCHORS GROUND TO POOL STEEL WITH #8 CU WIRE  
POOL STEEL #3 @ 12" O.C. E.W.  
3/4" VARIES  
1.90" DIA. 4.055 WALL STAINLESS STEEL OR SCH. 40 PVC LADDER  
WATER LEVEL  
BONDING WIRE  
DECK  
SLOPE  
4" VARIES  
WEDGE ANCHORS GROUND TO POOL STEEL WITH #8 CU WIRE  
POOL STEEL #3 @ 12" O.C. E.W.  
3/4" VARIES

**FIG. 4 HANDRAIL DETAIL**  
NTS

1.90" DIA. 4.055 WALL STAINLESS STEEL OR SCH. 40 PVC LADDER  
WATER LEVEL  
BONDING WIRE  
DECK  
SLOPE  
4" VARIES  
WEDGE ANCHORS GROUND TO POOL STEEL WITH #8 CU WIRE  
POOL STEEL #3 @ 12" O.C. E.W.  
3/4" VARIES

**STEPS & HANDRAIL DETAIL**  
NTS

BRICK COPING  
4" CONC. DECK WITH #4 WIRE MESH OR FIBER MESH CONC.  
WATER LEVEL  
DECK  
BONDING WIRE  
6"X6" TILE  
POOL FINISH  
#3 @ 12" O.C. E.W.

**BRICK COPING DETAIL**  
NTS

4" CONC. DECK WITH #4 WIRE MESH OR FIBER MESH CONC.  
WATER LEVEL  
DECK  
BONDING WIRE  
6"X6" TILE  
POOL FINISH  
#3 @ 12" O.C. E.W.

**CANTILEVER DETAIL**  
NTS

SLOPE GRADE AWAY FROM DECK  
SLOPE  
OVER 90° TO 45°  
2 #5 BARS VERTICAL @ 4' O.C.  
2 #5 BARS CONT.

**ALTERNATE FOOTER, DECK, & RETAINING WALL DETAIL**  
NTS

**NOTES:**  
1. ALL EQUIPMENT, BONDING GRID MUST COVER THE CONTOUR OF THE PERMANENTLY INSTALLED POOL AND SPA UNDER THE DECK. AN UNDERGROUND BONDING CONDUCTOR MADE OF A SINGLE #8 AWG BARE COPPER WIRE BURIED TO A MINIMUM DEPTH OF 1.0 INCHES BELOW SUBGRADE AND IN 10 TO 12 INCHES FROM INSIDE OF THE WALL OF A SWIMMING POOL OR SPA AND BONDED TO THE POOL STEEL WITH #8 AWG BARE COPPER WIRE AT FOUR EQUAL PLACES AROUND THE POOL. 2014 NEC 800-100 FOR POOL WATER BONDING REQUIREMENTS SEE NEC 800-100.  
2. DIRECT OR INDIRECT CONNECTIONS SHALL NOT BE MADE BETWEEN ANY STORM DRAIN, SEWER, DRAINAGE SYSTEM, SEEPAGE PIT OR UNDERGROUND LEADING PIT, OR SUBSOIL DRAINAGE LINE AND ANY LINE CONNECTED TO A SWIMMING POOL, UNLESS APPROVED BY THE ADMINISTRATIVE AUTHORITY.  
3. APPROVED MANUFACTURED IN-LET FITTINGS FOR THE RETURN OF RECIRCULATED POOL WATER SHALL BE PROVIDED ON THE BASIS OF AT LEAST ONE PER 100 SF OF SURFACE AREA AND ONE FOR EVERY 20 GPM OF THE RECIRCULATION RATE. SUCH IN-LET FITTINGS SHALL BE DESIGNED, CONSTRUCTED TO ENSURE AN ADEQUATE SEAL TO THE POOL STRUCTURE & SHALL INCORPORATE A CONVENIENT MEANS OF SEALING FOR POSITIVE TESTING OF THE FITTING WHERE MORE THAN ONE INLET IS REQUIRED. THE SHORTEST DISTANCE BETWEEN ANY TWO REQUIRED INLETS SHALL BE AT LEAST 90°.  
4. CONSTRUCTION AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF APPLICABLE STANDARDS FOR RESIDENTIAL SWIMMING POOLS PUBLISHED BY THE NATIONAL SPA & POOL INSTITUTE (NSPI) OR OTHER ACCEPTED ENGINEERING STANDARDS.  
5. ALL MATERIALS, FITTINGS, VALVES, EQUIPMENT OR APPLIANCES ENTERING INTO THE CONSTRUCTION OF SWIMMING POOLS OR PORTIONS THEREOF SHALL BE A TYPE THAT COMPLIES WITH BUILDING CODE OR OF A TYPE RECOMMENDED AND APPROVED BY A QUALIFIED AND LICENSED TESTING AGENCY OR CONFORMS TO OTHER RECOGNIZED STANDARDS ACCEPTABLE TO THE ADMINISTRATIVE AUTHORITY.

1.90" DIA. 4.055 WALL STAINLESS STEEL OR SCH. 40 PVC LADDER  
WATER LEVEL  
BONDING WIRE  
DECK  
SLOPE  
4" VARIES  
WEDGE ANCHORS GROUND TO POOL STEEL WITH #8 CU WIRE  
POOL STEEL #3 @ 12" O.C. E.W.  
3/4" VARIES

**FIG. 4 HANDRAIL DETAIL**  
NTS

1.90" DIA. 4.055 WALL STAINLESS STEEL OR SCH. 40 PVC LADDER  
WATER LEVEL  
BONDING WIRE  
DECK  
SLOPE  
4" VARIES  
WEDGE ANCHORS GROUND TO POOL STEEL WITH #8 CU WIRE  
POOL STEEL #3 @ 12" O.C. E.W.  
3/4" VARIES

**STEPS & HANDRAIL DETAIL**  
NTS

**NOTES:**  
1. ALL EQUIPMENT, BONDING GRID MUST COVER THE CONTOUR OF THE PERMANENTLY INSTALLED POOL AND SPA UNDER THE DECK. AN UNDERGROUND BONDING CONDUCTOR MADE OF A SINGLE #8 AWG BARE COPPER WIRE BURIED TO A MINIMUM DEPTH OF 1.0 INCHES BELOW SUBGRADE AND IN 10 TO 12 INCHES FROM INSIDE OF THE WALL OF A SWIMMING POOL OR SPA AND BONDED TO THE POOL STEEL WITH #8 AWG BARE COPPER WIRE AT FOUR EQUAL PLACES AROUND THE POOL. 2014 NEC 800-100 FOR POOL WATER BONDING REQUIREMENTS SEE NEC 800-100.  
2. DIRECT OR INDIRECT CONNECTIONS SHALL NOT BE MADE BETWEEN ANY STORM DRAIN, SEWER, DRAINAGE SYSTEM, SEEPAGE PIT OR UNDERGROUND LEADING PIT, OR SUBSOIL DRAINAGE LINE AND ANY LINE CONNECTED TO A SWIMMING POOL, UNLESS APPROVED BY THE ADMINISTRATIVE AUTHORITY.  
3. APPROVED MANUFACTURED IN-LET FITTINGS FOR THE RETURN OF RECIRCULATED POOL WATER SHALL BE PROVIDED ON THE BASIS OF AT LEAST ONE PER 100 SF OF SURFACE AREA AND ONE FOR EVERY 20 GPM OF THE RECIRCULATION RATE. SUCH IN-LET FITTINGS SHALL BE DESIGNED, CONSTRUCTED TO ENSURE AN ADEQUATE SEAL TO THE POOL STRUCTURE & SHALL INCORPORATE A CONVENIENT MEANS OF SEALING FOR POSITIVE TESTING OF THE FITTING WHERE MORE THAN ONE INLET IS REQUIRED. THE SHORTEST DISTANCE BETWEEN ANY TWO REQUIRED INLETS SHALL BE AT LEAST 90°.  
4. CONSTRUCTION AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF APPLICABLE STANDARDS FOR RESIDENTIAL SWIMMING POOLS PUBLISHED BY THE NATIONAL SPA & POOL INSTITUTE (NSPI) OR OTHER ACCEPTED ENGINEERING STANDARDS.  
5. ALL MATERIALS, FITTINGS, VALVES, EQUIPMENT OR APPLIANCES ENTERING INTO THE CONSTRUCTION OF SWIMMING POOLS OR PORTIONS THEREOF SHALL BE A TYPE THAT COMPLIES WITH BUILDING CODE OR OF A TYPE RECOMMENDED AND APPROVED BY A QUALIFIED AND LICENSED TESTING AGENCY OR CONFORMS TO OTHER RECOGNIZED STANDARDS ACCEPTABLE TO THE ADMINISTRATIVE AUTHORITY.

THE ENGINEER SHALL NOT BE HELD LIABLE FOR 1.) FAULTY MATERIALS AND CONSTRUCTION. 2.) INADEQUATE OR IMPROPER SUPERVISION OF CONSTRUCTION. 3.) IMPROPER POOL MAINTENANCE AFTER CONSTRUCTION. 4.) HYDROSTATIC UPLIFT OF THE POOL.  
THESE PLANS ARE FOR RESIDENTIAL POOLS ONLY AND THEY MAY NOT BE USED FOR ANY COMMERCIAL POOL OR COMMERCIAL EXCEPT POOL. THESE PLANS ARE FOR THE EXPLICIT USE FOR THE BUILDER NAMED. NO OTHER BUILDER MAY USE THESE PLANS WITHOUT THE WRITTEN CONSENT FROM THE BUILDER AND TNS DESIGN & CONSULTING, LLC.

**TNS**  
Design & Consulting  
BEYOND THE EXPECTED

**TNS DESIGN & CONSULTING, LLC**  
1532 US HWY 41 BYP S #204  
VENICE, FL 34293  
PHONE 941.586.0142  
TAR@TNSDESIGNANDCONSULTING.COM  
TARA N. SALL  
FLORIDA PE LICENSE NO. 90481

APPROVED MANUFACTURED IN-LET FITTINGS FOR THE RETURN OF RECIRCULATED POOL WATER SHALL BE PROVIDED ON THE BASIS OF AT LEAST ONE PER 100 SF OF SURFACE AREA AND ONE FOR EVERY 20 GPM OF THE RECIRCULATION RATE. SUCH IN-LET FITTINGS SHALL BE DESIGNED, CONSTRUCTED TO ENSURE AN ADEQUATE SEAL TO THE POOL STRUCTURE & SHALL INCORPORATE A CONVENIENT MEANS OF SEALING FOR POSITIVE TESTING OF THE FITTING WHERE MORE THAN ONE INLET IS REQUIRED. THE SHORTEST DISTANCE BETWEEN ANY TWO REQUIRED INLETS SHALL BE AT LEAST 90°.  
CONSTRUCTION AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF APPLICABLE STANDARDS FOR RESIDENTIAL SWIMMING POOLS PUBLISHED BY THE NATIONAL SPA & POOL INSTITUTE (NSPI) OR OTHER ACCEPTED ENGINEERING STANDARDS.  
ALL MATERIALS, FITTINGS, VALVES, EQUIPMENT OR APPLIANCES ENTERING INTO THE CONSTRUCTION OF SWIMMING POOLS OR PORTIONS THEREOF SHALL BE A TYPE THAT COMPLIES WITH BUILDING CODE OR OF A TYPE RECOMMENDED AND APPROVED BY A QUALIFIED AND LICENSED TESTING AGENCY OR CONFORMS TO OTHER RECOGNIZED STANDARDS ACCEPTABLE TO THE ADMINISTRATIVE AUTHORITY.

CONTRACTOR  
**TOM SANCER POOL & SPA, FL LIC. CPC-1458020**  
6010 CORTEZ ROAD WEST  
BRADENTON, FL 34210

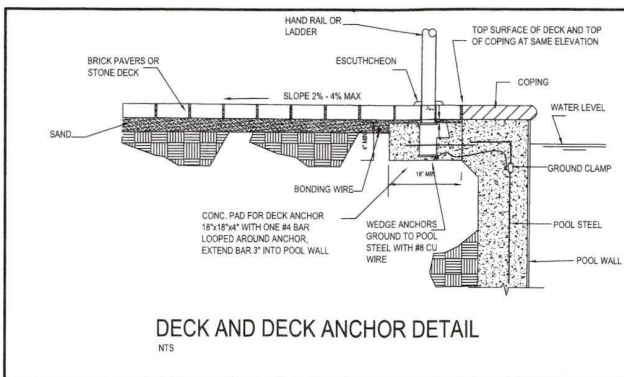
MUNICIPALITY  
**TOWN OF LONGBOAT KEY**

THESE PLANS MAY NOT BE REPRODUCED OR COPIED WITHOUT WRITTEN PERMISSION FROM TNS DESIGN & CONSULTING

DRAWING NAME: <b>RESIDENTIAL SPA MASTER</b>	DATE: 1.2.2024
SCALE: NTS	DRAWING NO: MASTER Spa2024-01
DRAWN BY: TNS	CHECKED BY: TNS

**SHEET 1 OF 1**

**RECEIVED**  
 AIRN 7 0 2024  
 TOWN OF LONGBOAT KEY  
 Planning, Zoning & Building



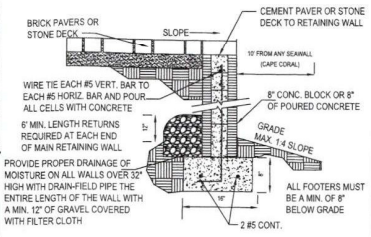
**DECK AND DECK ANCHOR DETAIL**  
NTS

**1 TO 2 COURSES HIGH (UP TO 16" HIGH)**  
1 #5 VERTICAL REBAR AT 12" O.C. AND AT ALL CORNERS AND ENDS. TOP COURSE TO BE AN 8"x8" KNOCKOUT BLOCK BLOCKS WITH 1 #5 HORIZONTAL REBAR OR AN 8"x8" FORMED AND POURED CAP WITH 1 #5 HORIZONTAL REBAR.

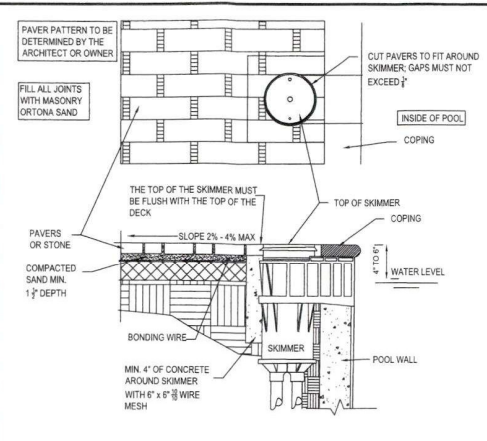
**3 TO 4 COURSES HIGH (UP TO 32" HIGH)**  
1 #5 VERTICAL REBAR AT 48" O.C. AND AT ALL CORNERS AND ENDS. TOP COURSE TO BE AN 8"x8" KNOCKOUT BLOCK BLOCKS WITH 1 #5 HORIZONTAL REBAR OR AN 8"x8" FORMED AND POURED CAP WITH 1 #5 HORIZONTAL REBAR.

**5 TO 7 COURSES HIGH (UP TO 56" HIGH)**  
1 #5 VERTICAL REBAR AT 24" O.C. AND AT ALL CORNERS AND ENDS. TOP 2 COURSES TO BE AN 8"x8" KNOCKOUT BLOCK BLOCKS WITH 1 #5 HORIZONTAL REBAR IN EACH KNOCKOUT BLOCK OR AN 8"x8" FORMED AND POURED CAP WITH 1 #5 HORIZONTAL REBAR. ONE TOP ONE BOTTOM.

ALL REINFORCING STEEL SHALL COMPLY WITH A.S.T.M. 615 GRADE 40.

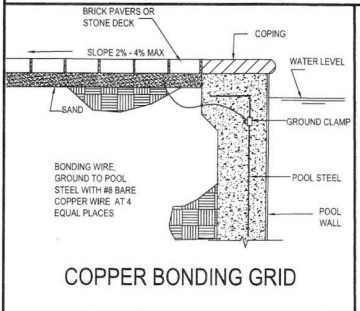


**RETAINING WALL DETAIL**  
NTS

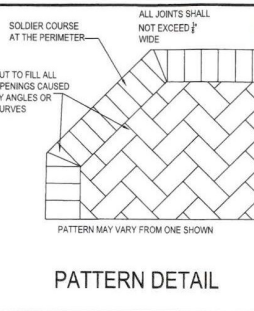


**SKIMMER DETAIL**  
NTS

NOTE: IF DRAINS ARE REQUIRED IN THE DECK, 4" ROUND OR DECK-DRAINS MAY BE USED. PLACED AT 12" O.C. MAX. BETWEEN THE POOL AND THE BUILDING WITH THE DECK SLOPING 2% MIN TO 4% MAX TOWARD THE DRAINS.

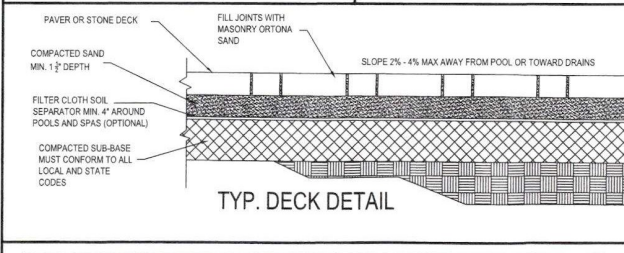


**COPPER BONDING GRID**

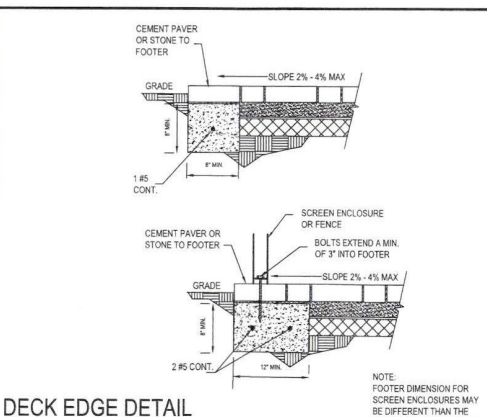


**PATTERN DETAIL**

- NOTES:**
- EXCAVATE UNSUITABLE, UNSTABLE, ORGANIC, OR UNCONSOLIDATED SUB-GRADE MATERIAL AND COMPACT THE AREA WHICH HAS BEEN CLEARED, THEN BACKFILL AND LEVEL WITH DENSE GRADE AGGREGATE SUITABLE FOR SUBBASE MATERIAL.
  - THE CONTRACTOR SHALL FIELD VERIFY ALL OMISSIONS AND NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE PLANS OR CONFLICT WITH ONSITE CONDITIONS.
  - THE FINISHED DECK SHALL NOT HAVE VOIDS THAT EXCEED 1/2" AND HAVE NO SHARP EDGES.
  - ALL JOINTS SHALL BE FILLED WITH MASONRY ORTONA SAND.
  - THE DECK SHALL SLOPE AT A MIN. 2% TO A MAX. 4% AWAY FROM THE POOL OR TOWARD THE DECK DRAINS.
  - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES.
  - THE DECK MAY BE SEALED WITH A RECOMMENDED DEEP-PENETRATION PAVEMENT SEALANT. (CHECK WITH MANUFACTURER AND HEALTH DEPARTMENT.)
  - THE ENGINEER SHALL NOT BE HELD LIABLE FOR FAULTY MATERIALS AND INSTALLATION, IMPROPER SUBBASE, AND IMPROPER MAINTENANCE OF THE DECK.
  - THE DECK SHALL CONFORM WITH THE FLORIDA BUILDING CODES, 2023 (8TH EDITION) AND WITH ALL APPLICABLE CITY AND/OR COUNTY ORDINANCES AND CODES.
  - A EQUIPOTENTIAL BONDING GRID MUST COVER THE CONTOUR OF THE PERMANENTLY INSTALLED POOL AND SPA UNDER THE DECK. AN UNDERGROUND BONDING CONDUCTOR MADE A SINGLE #8 AWG BARE COPPER WIRE BURIED TO A MINIMUM DEPTH OF 4 TO 6 INCHES BELOW SUBGRADE, AND 18 TO 24 INCHES FROM INSIDE OF THE WALL OF A RESIDENTIAL SWIMMING POOL OR SPA AND BONDED TO THE POOL STEEL WITH #8 AWG BARE COPPER WIRE AT FOUR EQUAL PLACES AROUND THE POOL. FOR POOL WATER BONDING SEE NEC 680.26-C.
  - PER NEC680.22-B POOL PUMP MOTORS MUST BE GFI PROTECTED.



**TYP. DECK DETAIL**



**DECK EDGE DETAIL**  
NTS

NOTE: FOOTER DIMENSION FOR SCREEN ENCLOSURES MAY BE DIFFERENT THAN THE ONE SHOWN. SEE SCREEN ENCLOSURE DRAWINGS.

THIS SPACE INTENTIONALLY LEFT BLANK

THE ENGINEER SHALL NOT BE HELD LIABLE FOR 1.) FAULTY MATERIALS AND CONSTRUCTION, 2.) NEGLIGENCE OR IMPROPER SUPERVISION OF CONSTRUCTION, 3.) IMPROPER POOL MAINTENANCE AFTER CONSTRUCTION, 4. HYDROSTATIC UPLIFT OF THE POOL.

THESE PLANS ARE FOR RESIDENTIAL POOLS ONLY AND THEY MAY NOT BE USED FOR ANY COMMERCIAL POOL OR COMMERCIALLY EXEMPT POOL. THESE PLANS ARE FOR THE EXPLICIT USE FOR THE BUILDER NAMED. NO OTHER BUILDER MAY USE THESE PLANS WITHOUT THE WRITTEN CONSENT FROM THE BUILDER AND TNS DESIGN & CONSULTING, LLC.



**TNS DESIGN & CONSULTING, LLC**  
1532 LIS HWY #1 BYP S #204  
VENICE, FL 34293  
PHONE 941.586.0142  
TARA@TNSDESIGNANDCONSULTING.COM  
TARA N. SALL,  
FLORIDA PE LICENSE NO. 90481

CONTRACTOR  
**TOM SANGER POOL & SPA, FL LIC. CPC-1458020**  
6010 CORTEZ ROAD WEST  
BRADENTON, FL 34210



MUNICIPALITY  
TOWN OF LONGBOAT KEY

THESE PLANS MAY NOT BE REPRODUCED OR COPIED WITHOUT WRITTEN PERMISSION FROM TNS DESIGN & CONSULTING

DRAWING NAME:  
**MASTER PAVER OR STONE DECK**

SCALE: NTS  
DRAWN BY: TNS  
CHECKED BY: TNS  
DATE: 1.2.2024

DRAWING NAME:  
**MASTERRpsd2024-01**

SHEET 1 OF 1

**RECEIVED**  
 A116 7 a 2024  
 TOWN OF LONGBOAT KEY  
 Planning, Zoning & Building





**GENERAL NOTES**

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOBSITE PRIOR TO COMMENCING WORK. CONTRACTOR SHALL REPORT ALL DISCREPANCIES THE DRAWINGS AND EXISTING CONDITION TO THE ENGINEER OF RECORD PRIOR TO COMMENCING WORK.
2. NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE LOCATE ON THESE DRAWINGS WITHOUT PREVIOUS APPROVAL FROM THE ENGINEER OF RECORD.
3. EXCAVATE UNSUITABLE, UNSTABLE, ORGANIC, OR UNCONSOLIDATED SUB-GRADE MATERIAL AND COMPACT THE AREA 5' BEYOND THE STRUCTURE TO A MINIMUM ALLOWABLE BEARING CAPACITY OF 2,000 PSF AND 95% OF MODIFIED PROCTOR PER ASTM D1557
4. ALL FOUNDATIONS SHALL BE BUILT ON PROPERLY COMPACTED FILL MATERIAL COMPLYING WITH FBC-R 2023.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL OMISSIONS AND NOTIFY THE ENGINEER OF RECORD OF ANY DEVIATIONS FROM THE PLANS OR CONFLICT WITH ONSITE CONDITIONS.
6. THE FINISHED DECK SHALL NOT HAVE VOIDS THAT EXCEED  $\frac{1}{8}$ " AND HAVE NO SHARP EDGES.
7. ALL JOINTS SHALL BE FILLED WITH MASONRY ORTONA SAND.
8. THE DECK SHALL SLOPE AT A MIN. 2% TO A MAX. 4% AWAY FROM THE POOL OR TOWARD THE DECK DRAINS.
9. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES.
10. THE DECK MAY BE SEALED WITH A RECOMMENDED DEEP-PENETRATION PAVER SEALANT. (CHECK WITH MANUFACTURER AND HEALTH DEPARTMENT.)
11. THE ENGINEER SHALL NOT BE HELD LIABLE FOR FAULTY MATERIALS AND INSTALLATION, IMPROPER SUBBASE, AND IMPROPER MAINTENANCE OF THE DECK.
12. THE DECK SHALL CONFORM WITH THE FLORIDA BUILDING CODES, 2023 (8TH EDITION) AND WITH ALL APPLICABLE CITY AND/OR COUNTY ORDINANCES AND CODES.
13. A EQUIPOTENTIAL BONDING GRID MUST COVER THE CONTOUR OF THE PERMANENTLY INSTALLED POOL AND SPA UNDER THE DECK. AN UNDERGROUND BONDING CONDUCTOR MADE A SINGLE #8 AWG BARE COPPER WIRE BURIED TO A MINIMUM DEPTH OF 4 TO 6 INCHES BELOW SUBGRADE, AND 18 TO 24 INCHES FROM INSIDE OF THE WALL OF A RESIDENTIAL SWIMMING POOL OR SPA AND BONDED TO THE POOL STEEL WITH #8 AWG BARE COPPER WIRE AT FOUR EQUAL PLACES AROUND THE POOL. FOR POOL WATER BONDING SEE NEC 680.26-C
14. CONTRACTOR SHALL LOCATE ALL BURIED UTILITIES PRIOR TO EXCAVATION FOR STRUCTURE FOUNDATIONS. THE ENGINEER OF RECORD SHALL BE NOTIFIED OF POTENTIAL CONFLICTS BETWEEN FOUNDATIONS AND BURIED UTILITIES.

15. ALL EPOXY SHALL BE SIMPSON SET-3G HIGH STRENGTH EPOXY, INSTALLED PER MANUFACTURER SPECIFICATIONS. EPOXY SHALL BE FULLY CURED PRIOR TO CIP CONCRETE BEING PLACED.

**TEMPORARY CONDITIONS:**

THE STRUCTURAL INTEGRITY OF THE COMPLETED STRUCTURE DEPENDS ON INTERACTION OF VARIOUS CONNECTED COMPONENTS. PROVIDE ADEQUATE BRACING, SHORING, AND OTHER TEMPORARY SUPPORTS AS REQUIRED TO SAFELY COMPLETE THE WORK. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION ONLY.

**DESIGN LOAD NOTE:**

ANY DEVIATION MADE TO MATERIALS INDICATED AT THE TIME OF DEVELOPMENT OF THESE PLANS SHALL BE ALERTED TO THE ENGINEER OF RECORD FROM THE CONTRACTOR TO VERIFY THAT THE NEW LOADS RESULTING IN THE MATERIAL CHANGE CONFORM TO THE DESIGN HEREIN AND ITS LOAD CAPACITY.

**MASONRY NOTES:**

1. ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.102, "SPECIFICATION FOR MASONRY STRUCTURES".
2. HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND BE MADE WITH NORMAL WEIGHT AGGREGATE. MINIMUM COMPRESSIVE STRENGTH SHALL BE 2,500 PSI AS DETERMINED BY ACI 530.1.
3. MORTAR SHALL CONFORM TO ASTM C270, TYPE M, S OR N. ALL MORTAR SHALL MEET THE PROPORTION SPECIFICATION IN ASTM C270 AND EVALUATED IN ACCORDANCE WITH ASTM C780.
4. ALL WALLS SHALL BE LAID IN RUNNING BOND. ALL CORNERS AND INTERSECTIONS OF LOAD BEARING WALLS SHALL BE BONDED.

**CAST-IN-PLACE CONCRETE NOTES:**

ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28-DAYS OF 3,000 PSI PER CYLINDER TESTING IN ASTM C39 ( $f'c$  ABS W/C MIN CEMENT SLUMP SHALL BE 3,000 PSI 0.58 470 LBS 5"±). IF CONCRETE IS IN A SALT ENVIRONMENT, MINIMUM COMPRESSIVE STRENGTH SHALL BE INCREASED TO 5,000 PSI AND CONFORM TO ACI 301. HOT WEATHER CONCRETE SHALL BE IN ACCORDANCE WITH ACI 305. CEMENT SHALL CONFORM TO ASTM C150, TYPE 1. FLY ASH CONFORMING TO ASTM C618, TYPE F OR TYPE C, MAY BE USED TO REPLACE UP TO 20% OF CEMENT CONTENT IF THE MIX STRENGTH IS CONFIRMED BY TEST DATE. COARSE AGGREGATE SHALL CONFORM TO ASTM C33 WITH A MAXIMUM AGGREGATE SIZE OF  $\frac{3}{4}$ ". FINE AGGREGATE SHALL BE CLEAN, DURABLE, NATURAL SAND CONFORMING TO ASTM C33.

5. ALL REINFORCING STEEL SHALL COMPLY WITH ASTM 615, GRADE 40. ALL WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A185.

6. ALL REINFORCING STEEL SHALL LAP A MINIMUM OF 25" AND BE SET IN PLACE PRIOR TO CONCRETE PLACEMENT BY BEING TIED IN PLACE WITH #16 ANNEALED IRON WIRE. VERTICAL DOWELS FOR CMU WALL MAY BE FLOATED IN PLACE.

7. ALL DETAILING AND ACCESSORIES SHALL CONFORM TO ACI DETAIL MANUAL SP66. PROVIDE CHAIRS, SPACERS, BOLSTERS, AND ITEMS IN CONTACT WITH FORMS WITH HDG LEGS OR PLASTIC LEGS. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT BY FORMWORK CONSTRUCTION OR CONCRETE PLACEMENT OPERATIONS.

8. ALL CONCRETE SHALL BE DESIGNED PER ACI 30 AND BE READY-MIX IN ACCORDANCE WITH ASTM C94.

9. ALL CONCRETE COVERAGE OVER REINFORCING BARS SHALL COMPLY WITH ACI 318-08

- 9.1. FOUNDATION EXPOSED TO EARTH: 3"
- 9.2. CONCRETE NOT EXPOSED TO EARTH OR WEATHER (BEAMS & COLUMNS):  $1\frac{1}{2}$ "
- 9.3. CONCRETE EXPOSED TO WEATHER: #5 BAR OR SMALLER -  $1\frac{1}{2}$ "

10. TEMPORARY SHORING SHALL REMAIN IN PLACE UNTIL CAST-IN-PLACE CONCRETE IS FULLY CURED. DECK SHALL NOT BE LOADED UNTIL AFTER FULL 28-DAY CURE TIME.

11. SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE DRAWINGS HEREIN SHALL BE APPROVED BY THE ENGINEER OF RECORD BEFORE POURING. NO SLEEVE, OPENING, OR INSERT SHALL BE PLACED IN BEAMS, JOISTS OR COLUMNS UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAT 1/3RD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTER.

**DESIGN CRITERIA**

DESIGN IN ACCORDANCE WITH FLORIDA BUILDING CODE 8TH EDITION, 2023

ULTIMATE WIND SPEED: 150 MPH  
 EXPOSURE: D  
 RISK CATEGORY: I  
 PRESSURE DESIGN FACTOR: ±0.00  
 OCCUPANCY TYPE: U  
 CONSTRUCTION TYPE: 11-B  
 BUILDING TYPE: OPEN

**RECEIVED**  
 AUG 29 2024  
 TOWN OF LONGBOAT KEY  
 Planning, Zoning & Building

TNS Design & Consulting LLC  
 1520 SW Hwy 44 Bypass 5  
 Venice, Florida 34293  
 www.tnsdesignandconsulting.com

**TNS**  
 Design & Consulting

THESE PLANS SHALL NOT BE REPRODUCED OR COPIED WITHOUT WRITING PERMISSION FROM THE ENGINEER OF RECORD. THESE PLANS ARE THE PROPERTY OF TNS DESIGN & CONSULTING LLC. ANY REPRODUCTION OR COPIING OF THESE PLANS WITHOUT THE WRITING PERMISSION OF TNS DESIGN & CONSULTING LLC IS STRICTLY PROHIBITED. ANY REPRODUCTION OR COPIING OF THESE PLANS WITHOUT THE WRITING PERMISSION OF TNS DESIGN & CONSULTING LLC IS STRICTLY PROHIBITED.

**SITE SPECIFIC DETAIL FOR:**  
 PETERSON RESIDENCE  
 6695 GULF OF MEXICO DRIVE  
 LONGBOAT KEY, FLORIDA 34228  
 PID# 7826-80-0109  
 Section 22, Township 35 South, Range 16 East  
 Manatee County, Florida



**CONTRACTOR:**  
 TOM SANGER  
 POOL & SPA LLC  
 CPC# 1458020

Revisions:	Descriptor:
Date:	

Job#	2024-TSP_6695-PTRSN
DWG #	05_hedical-pool-peterson-wrhd_20240718
Date:	07/25/2024
Drawn By:	TNS
Checked By:	TNS
Sheet No.	2
of	2