CONSTRUCTION CODE REQUIREMENTS:

THESE PLANS WERE PREPARED AND SHALL COMPLY WITH THE FOLLOWING CODES WHEN APPLICABLE

- 2018 NORTH CAROLINA BUILDING CODE
- 2018 INTERNATIONAL SWIMMING POOL & SPA CODE (ISPSC)
- 15A NCAC 18A .2500 RILES GOVERNING PUBLIC SWIMMING POOLS NORTH CAROLINA DPH
- 2018 NORTH CAROLINA PLUMBING CODE
- 2018 NORTH CAROLINA FIRE PREVENTION CODE
- 2018 NORTH CAROLINA MECHANICAL CODE
- 2018 NORTH CAROLINA FUEL GAS CODE
- 2019 NORTH CAROLINA ENERGY CONSERVATION CORE
- 2018 NORTH CAROLINA ENERGY CONSERVATION CODE
- 2018 NORTH CAROLINA EXISTING BUILDING CODE
 2020 NORTH CAROLINA ELECTRICAL CODE
- 2020 NORTH CAROLINA ELECTRICAL CODE
- 2009 NORTH CAROLINA ACCESSIBILITY CODE- 2010 ADA STANDARDS
- ANSI/APSP/ICC-7 2013 AMERICAN NATIONAL STANDARD FOR SUCTION ENTRAPMENT AVOIDANCE IN SWIMMING POOLS, WADING POOLS, SPAS, HOT TUBS AND CATCH BASINS
- ANSI/APSP/ICC-16 2017 AMERICAN NATIONAL STANDARD FOR SUCTION OUTLET FITTING ASSEMBLIES (SOFA) FOR USE IN POOLS, SPAS AND HOT TUBS.

IMPORTANT NOTE:

POOL CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO ALL ABOVE LISTED CODE REQUIREMENT AS WELL AS ANY ADDITIONAL REQUIREMENTS PER LOCAL MUNICIPALITY THAT MAY BE MORE STRINGENT THAN THE ABOVE LISTED CODES REQUIREMENTS.

GENERAL STRUCTURAL NOTES:

- 1. TILE MINIMUM CONCRETE COVER FOR #3 REBAR IS TO BE 2".
- 2. CONTINUOUS #3 REBAR SPLICES SHALL BE 18" (40 BAR DIAMETERS) MINIMUM LAP,
- STEEL TO BE BENT, LAPPED, AND PLACED IN CONFORMANCE WITH A.C.J. STANDARDS AND SPECS.
- 3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI AT 28 DAYS.

GENERAL POOL / SPA REQUIREMENTS (ISPSC):

GENERAL CONSTRUCTION NOTE

- POOLS AND SPAS AND APPURTENANCES THERETO SHALL BE CONSTRUCTED OF MATERIALS THAT ARE NONTOXIC TO HUMANS AND THE ENVIRONMENT; THAT ARE GENERALLY OR COMMONLY REGARDED TO BE IMPERVIOUS AND ENDURING; THAT WILL WITHSTAND THE DESIGN STRESSES; AND THAT WILL PROVIDE A WATERTIGHT STRUCTURE WITH A SMOOTH AND EASILY CLEANABLE SURFACE WITHOUT CRACKS OR JOINTS, EXCLUDING STRUCTURAL JOINTS, OR THAT WILL PROVIDE A WATERTIGHT STRUCTURE TO WHICH A SMOOTH, EASILY CLEANED SURFACE/FINISH IS APPLIED OR ATTACHED. MATERIAL SURFACES THAT COME IN CONTACT WITH THE USER SHALL BE FINISHED, SO THAT THEY DO NOT CONSTITUTE A CUTTING, PINCHING, PUNCTURING OR ABRASION HAZARD UNDER CASUAL CONTACT AND INTENDED USE.

- HAZARDOUS LOCATIONS FOR GLAZING SHALL BE AS DEFINED IN THE INTERNATIONAL BUILDING CODE OR THE INTERNATIONAL RESIDENTIAL CODE, AS APPLICABLE IN ACCORDANCE WITH SECTION 102.7.1 OF THIS CODE. WHERE GLAZING IS DETERMINED TO BE IN A HAZARDOUS LOCATION, THE REQUIREMENTS FOR THE GLAZING SHALL BE IN ACCORDANCE WITH THOSE CODES, AS APPLICABLE.

FOR OTHER THAN RESIDENTIAL POOLS AND RESIDENTIAL SPAS, THE COLORS, PATTERNS, OR FINISHES OF
THE POOL AND SPA INTERIORS SHALL NOT OBSCURE OBJECTS OR SURFACES WITHIN THE POOL OR SPA.
 AN ACCESSIBLE ROUTE TO PUBLIC POOLS AND SPAS SHALL BE PROVIDED IN ACCORDANCE WITH THE
INTERNATIONAL BUILDING CODE. ACCESSIBILITY WITHIN PUBLIC POOLS AND SPAS SHALL BE PROVIDED
AS REQUIRED BY THE ACCESSIBLE RECREATIONAL FACILITIES PROVISIONS OF THE INTERNATIONAL BUILDING CODE

LIGHTING

- WHEN A POOL IS OPEN DURING PERIODS OF LOW NATURAL ILLUMINATION, ARTIFICIAL LIGHTING SHALL BE PROVIDED SO THAT ALL AREAS OF THE POOL, INCLUDING ALL SUCTION OUTLETS ON THE BOTTOM OF THE POOL, WILL BE VISIBLE. ILLUMINATION SHALL BE SUFFICIENT TO ENABLE A LIFEGUARD OR OTHER PERSONS STANDING ON THE DECK OR SITTING ON A LIFEGUARD STAND ADJACENT TO THE POOL EDGE TO DETERMINE IF A POOL USER IS LYING ON THE BOTTOM OF THE POOL AND THAT THE POOL WATER IS TRANSPARENT AND FREE FROM CLOUDINESS.

- WHERE LIGHTING IS INSTALLED FOR, AND IN, RESIDENTIAL POOLS AND PERMANENT RESIDENTIAL SPAS, SUCH LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 OR THE INTERNATIONAL RESIDENTIAL CODE, AS APPLICABLE IN ACCORDANCE WITH SECTION 102.7.1.

- FOR OUTDOOR POOLS, ANY COMBINATION OF OVERHEAD AND UNDERWATER LIGHTING SHALL PROVIDE MAINTAINED ILLUMINATION NOT LESS THAN 10 HORIZONTAL FOOT-CANDLES (10 LUMENS PER SQUARE FOOT) [108 LUX] AT THE POOL WATER SURFACE. DECK AREA LIGHTING FOR BOTH INDOOR AND OUTDOOR POOLS SHALL PROVIDE MAINTAINED ILLUMINATION OF NOT LESS THAN 10 HORIZONTAL FOOT-CANDLES (10 LUMENS PER SQUARE FOOT) [108 LUX] AT THE WALKING SURFACE OF THE DECK.

- UNDERWATER LIGHTING SHALL PROVIDE NOT LESS THAN 8 HORIZONTAL FOOT-CANDLES (8 LUMENS PER SQUARE FOOT) [86 LUX] AT THE POOL WATER SURFACE AREA, OR NOT LESS THAN A TOTAL WATTAGE OF 1/2 WATT/FT2 (5.4 WATTS/M2) OF POOL WATER SURFACE FOR INCANDESCENT UNDERWATER LIGHTING WHERE THE FIXTURES AND LAMPS ARE RATED IN WATTS.

ELECTRICAL, PLUMBING, MECHANICAL AND FUEL GAS

-ELECTRICAL REQUIREMENTS FOR AQUATIC FACILITIES SHALL BE IN ACCORDANCE WITH NFPA 70
OR THE INTERNATIONAL RESIDENTIAL CODE, AS APPLICABLE IN ACCORDANCE WITH SECTION 102.7.1.
EXCEPTION: INTERNAL WIRING FOR PORTABLE RESIDENTIAL SPAS AND PORTABLE RESIDENTIAL EXERCISE SPAS.
- PIPING AND FITTINGS USED FOR WATER SERVICE, MAKEUP AND DRAINAGE PIPING FOR POOLS AND SPAS SHALL COMPLY WITH THE INTERNATIONAL PLUMBING CODE. FITTINGS SHALL BE APPROVED FOR INSTALLATION WITH THE PIPING INSTALLED.
- PIPE, FITTINGS, AND COMPONENTS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH NSF 50 OR NSF 14. PLASTIC JETS, FITTINGS, AND OUTLETS USED IN PUBLIC SPAS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH NSF 50. EXCEPTIONS:
1) PORTABLE RESIDENTIAL SPAS AND PORTABLE RESIDENTIAL EXERCISE SPAS LISTED AND LABELED IN ACCORDANCE WITH UL 1563 OR CSA C22.2 NO. 218.1. 2)

ON GROUND STORABLE POOLS SUPPLIED BY THE POOL MANUFACTURER AS A KIT THAT INCLUDES ALL PIPE, FITTINGS, AND COMPONENTS.

- PIPING, INCLUDING PROCESS PIPING, THAT IS INSTALLED IN TRENCHES, SHALL BE INSPECTED PRIOR TO BACKFILLING.
- WATER SUPPLIES FOR POOLS AND SPAS SHALL BE PROTECTED AGAINST BACKFLOW IN ACCORDANCE WITH
THE INTERNATIONAL PLUMBING CODE OR THE INTERNATIONAL RESIDENTIAL CODE, AS APPLICABLE IN ACCORDANCE

WITH SECTION 102.7.1. - WHERE WASTEWATER FROM POOLS OR SPAS, SUCH AS BACKWASH WATER FROM FILTERS AND WATER FROM DECK DRAINS DISCHARGE TO A BUILDING DRAINAGE SYSTEM, THE CONNECTION SHALL BE THROUGH AN AIR GAP IN ACCORDANCE

WITH THE INTERNATIONAL PLUMBING CODE OR THE INTERNATIONAL RESIDENTIAL CODE AS APPLICABLE IN ACCORDANCE WITH SECTION 102.7.1.
- TESTS ON WATER PIPING SYSTEMS CONSTRUCTED OF PLASTIC PIPING SHALL NOT USE COMPRESSED AIR FOR THE TEST.

POOLS AND SPAS SHALL BE MAINTAINED IN A CLEAN AND SANITARY CONDITION, AND IN GOOD REPAIR.
 AN OPERATING AND MAINTENANCE MANUAL IN ACCORDANCE WITH INDUSTRY-ACCEPTED STANDARDS SHALL BE PROVIDED FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.

USER LOADING

IN DETERMINING THE MAXIMUM NUMBER OF PERSONS ALLOWED IN THE POOL AT ANY ONE TIME, THE FOLLOWING CRITERIA SHALL GOVERN:

(1) FIFTEEN SQUARE FEET (1.39 SQ M) OF WATER SURFACE AREA PER PERSON SHALL BE PROVIDED IN AREAS OF THE POOL FIVE FEET (1.52 M) DEEP OR LESS.

(2) TWENTY-FOUR SQUARE FEET (2.23 SQ M) OF WATER SURFACE AREA PER PERSON SHALL BE PROVIDED IN AREAS OF

THE POOL GREATER THAN FIVE FEET (1.52 M) DEEP. THREE HUNDRED SQUARE FEET (27.87 SQ M) OF POOL AREA AROUND EACH DIVING BOARD OR PLATFORM, WHERE PROVIDED, SHALL NOT BE INCLUDED IN COMPUTING THIS AREA FOR THE PURPOSE OF DETERMINING MAXIMUM BATHER LOAD.

(3) TEN SQUARE FEET (0.9 SQ M) OF WATER SURFACE AREA PER PERSON SHALL BE PROVIDED IN SPAS.

(4) TWENTY-FIVE SQUARE FEET OF SPLASH ZONE AREA PER PERSON SHALL BE PROVIDED AT INTERACTIVE PLAY ATTRACTIONS.

CIRCULATION SYSTEMS

- CIRCULATION EQUIPMENT SHALL BE SIZED TO TURNOVER THE ENTIRE WATER CAPACITY OF THE POOL AS SPECIFIED IN ISPSC TABLE 407.2. THE SYSTEM SHALL BE DESIGNED TO PROVIDE THE REQUIRED TURNOVER RATE BASED ON THE MAXIMUM PRESSURE AND FLOW RATE RECOMMENDED BY THE MANUFACTURER OF THE FILTER WITH CLEAN FILTER MEDIA.

- FOR PUBLIC POOLS. GAUGES SHALL BE PROVIDED WITH READY ACCESS.

1. A PRESSURE GAUGE SHALL BE LOCATED DOWNSTREAM OF THE PUMP AND BETWEEN THE PUMP AND FILTER.

2. A VACUUM GAUGE SHALL BE LOCATED BETWEEN THE PUMP AND FILTER AND UPSTREAM.
- PUBLIC SWIMMING POOLS AND WADING POOLS SHALL BE EQUIPPED WITH A FLOW-MEASURING DEVICE THAT INDICATES THE RATE OF FLOW THROUGH THE FILTER SYSTEM. THE FLOW RATE

MEASURING DEVICE SHALL INDICATE GALLONS PER MINUTE (LPM) AND SHALL BE SELECTED AND INSTALLED TO BE ACCURATE WITHIN PLUS OR MINUS 10 PERCENT OF ACTUAL FLOW OF THE PUMP.

SAFETY

- WHERE THE DEPTH BELOW THE DESIGN WATERLINE OF A POOL OR SPA EXCEEDS 42 INCHES (1067 MM), HANDHOLDS ALONG THE PERIMETER SHALL BE PROVIDED. HANDHOLDS SHALL BE LOCATED AT THE TOP OF DECK OR COPING. EXCEPTIONS: 1. HANDHOLDS SHALL NOT BE REQUIRED WHERE AN UNDERWATER BENCH, SEAT OR SWIMOUT IS INSTALLED. 2. HANDHOLDS SHALL NOT BE REQUIRED FOR WAVE ACTION POOLS AND ACTION RIVERS.

- HANDHOLDS SHALL BE LOCATED NOT MORE THAN 12 INCHES (305 MM) ABOVE THE DESIGN WATERLINE.
- HANDHOLDS SHALL BE HORIZONTALLY SPACED NOT GREATER THAN 4 FEET (1219 MM) APART.
- THE TOP OF THE GRIPPING SURFACE OF HANDRAILS FOR PUBLIC POOLS AND PUBLIC SPAS SHALL BE
34 INCHES (864 MM) TO 38 INCHES (965 MM) ABOVE THE RAMP OR STEP SURFACE AS MEASURED AT THE
NOSING OF THE STEP OR FINISHED SURFACE OF THE SLOPE. THE TOP OF THE GRIPPING SURFACE OF
HANDRAILS FOR RESIDENTIAL POOLS AND RESIDENTIAL SPAS SHALL BE 30 INCHES (762 MM) TO 38 INCHES (965 MM)
ABOVE THE RAMP OR STEP SURFACE AS MEASURED AT THE NOSING OF THE STEP OR FINISHED SURFACE OF
THE SLOPE. HANDRAILS SHALL BE MADE OF CORROSION RESISTANT MATERIALS. HANDRAILS SHALL BE INSTALLED
SO THAT THEY CANNOT BE REMOVED WITHOUT THE USE OF TOOLS. THE LEADING EDGE OF HANDRAILS FOR STAIRS,
POOL ENTRIES AND EXITS SHALL BE LOCATED NOT GREATER THAN 18 INCHES (457 MM) FROM THE VERTICAL FACE OF
THE BOTTOM RISER. THE OUTSIDE DIAMETER OR WIDTH OF HANDRAILS SHALL BE NOT LESS THAN 11/4 INCHES (32 MM)
AND NOT GREATER THAN 2 INCHES (51 MM).

- THERE SHALL NOT BE OBSTRUCTIONS THAT CAN CAUSE THE USER TO BE ENTRAPPED OR INJURED. TYPES OF ENTRAPMENT INCLUDE, BUT ARE NOT LIMITED TO, WEDGE OR PINCH-TYPE OPENINGS AND RIGID, NONGIVING CANTILEVERED PROTRUSIONS.

SANITIZING EQUIPMENT

- SANITIZING EQUIPMENT INSTALLED IN PUBLIC POOLS AND SPAS SHALL BE CAPABLE OF INTRODUCING THE QUANTITY OF SANITIZER NECESSARY TO MAINTAIN THE APPROPRIATE LEVELS UNDER ALL CONDITIONS OF INTENDED USE.

- WHERE INSTALLED, CHEMICAL FEED SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. CHEMICAL FEED PUMPS SHALL BE WIRED SO THAT THEY CANNOT OPERATE UNLESS THERE IS ADEQUATE RETURN FLOW TO DISBURSE THE CHEMICAL THROUGHOUT THE POOL OR SPA AS DESIGNED.

- BACKWASH WATER AND DRAINING WATER SHALL BE DISCHARGED TO THE SANITARY OR STORM SEWER, OR INTO AN APPROVED DISPOSAL SYSTEM ON THE PREMISE, OR SHALL BE DISPOSED OF BY OTHER MEANS APPROVED BY THE STATE OR LOCAL AUTHORITY. DIRECT CONNECTIONS SHALL NOT BE MADE BETWEEN THE END OF THE BACKWASH LINE AND THE DISPOSAL SYSTEM. DRAINS SHALL DISCHARGE THROUGH AN AIR GAP.

OTHER ADDITIONAL NOTES

- PUBLIC POOL CIRCULATION SYSTEMS SHALL BE DESIGNED TO PROCESS NOT LESS THAN 100 PERCENT OF THE TURNOVER RATE THROUGH SKIMMERS.

- PUBLIC POOLS AND PUBLIC POOL AREAS THAT OPERATE DURING PERIODS OF LOW ILLUMINATION SHALL BE PROVIDED WITH EMERGENCY LIGHTING THAT WILL AUTOMATICALLY TURN ON TO PERMIT EVACUATION OF THE POOL AND SECURING OF THE AREA IN THE EVENT OF POWER FAILURE.

This item has been electronica signed and sealed by Richard Walker, P.E. on date below using a Digital Signature. Print copies of this document are no considered signed and sealed the signature must be verified



ELECTRICAL ONLY

CONTRACTOR:

MASTIN AQUATIC GROUP LL
1215 SOUTHER RD
1215 SOUTHER RD
NORTH WILKSBORO, NC 286

TAD

TAD

AGAPE-KURE BEACH MINIST
1369 TYLER DEWAR LN,
FUQUAY-VARINA NC 27526

RSON

SCOPE OF WORK:

COMMERCIAL SWIMMING POOL ENGINEERING

(POOL NOT DESIGNED FOR DIVING)

PROJECT INFORMATION:

PROJECT NAME:- AGAPE-KURE BEACH MINISTRIES

PROJECT ADDRESS:- 1369 TYLER DEWAR LN, FUQUAY-VARINA NC 27526

SHEET NO.	DRAWING INDEX	
1	GENERAL NOTES	
2	POOL LOCATION PLAN	
3	POOL LAYOUT PLAN/ SECTION	
4	POOL PLUMBING	
5	POOL DETAILS	

NOTE: SCALE ON THIS PLAN WHEN SHOWN IS SET TO PRINT FULL SIZE ON 36" X 24" PAPER SIZE.

DRESSING AND SANITARY FACILITIES

(A) DRESSING AND SANITARY FACILITIES SHALL BE PROVIDED AT ALL POOLS, EXCEPT FOR POOLS AT HOTELS, MOTELS, CONDOMINIUMS, AND APARTMENTS WHERE POOL USE IS RESTRICTED TO RESIDENTS OR GUESTS. AT HOTELS, MOTELS, CONDOMINIUMS AND APARTMENTS WHERE THE FARTHEST UNIT IS MORE THAN 300 FEET FROM THE POOL, AS MEASURED ALONG WALKWAYS PROVIDED FOR ACCESS BY RESIDENTS OR GUESTS TO THE POOL AREA. A TOILET AND LAVATORY SHALL BE PROVIDED. ALL PUBLIC SWIMMING POOLS SHALL POST A SIGN VISIBLE UPON ENTERING THE POOL ENCLOSURE DIRECTING POOL USERS TO SHOWER BEFORE ENTERING THE POOL. (B) PARTITIONS SHALL BE OF MATERIAL, NOT SUBJECT TO DAMAGE BY WATER AND SHALL BE DESIGNED SO THAT A WATERWAY IS PROVIDED BETWEEN PARTITIONS AND FLOOR TO PERMIT THOROUGH CLEANING OF THE WALLS AND FLOOR AREAS WITH HOSES AND BROOMS.

(C) DRESSING FACILITY FLOORS SHALL BE CONTINUOUS THROUGHOUT THE AREAS. FLOORS SHALL HAVE A SLIP-RESISTANT SURFACE THAT SHALL BE SMOOTH. TO INSURE COMPLETE CLEANING, FLOOR DRAINS SHALL BE PROVIDED, AND FLOORS SHALL BE SLOPED NOT LESS THAN ¼ INCH PER FOOT TOWARD THE DRAINS TO INSURE POSITIVE DRAINAGE.

(D) HOSE BIBS SHALL BE PROVIDED SUCH THAT ALL PARTS OF THE DRESSING FACILITY INTERIOR CAN BE REACHED WITH A 50 FOOT HOSE.

E) THE MINIMUM NUMBER OF FIXTURES REQUIRED IN DRESSING AND SANITARY FACILITIES SHALL BE BASED UPON THE MAXIMUM BATHER LOAD.

(F) ONE WATER CLOSET, ONE LAVATORY, AND ONE URINAL SHALL BE PROVIDED FOR THE FIRST 100 MALE USERS. ONE ADDITIONAL WATER CLOSET, LAVATORY, AND URINAL SHALL BE PROVIDED FOR EACH ADDITIONAL 200 MALE USERS UP TO A TOTAL OF 500 USERS. WHERE USER LOAD EXCEEDS 500 MALE USERS, TWO ADDITIONAL WATER CLOSETS OR URINALS AND ONE LAVATORY SHALL BE PROVIDED FOR EACH ADDITIONAL 250 MALE USERS. WHERE THE MAXIMUM BATHER LOAD INCLUDES LESS THAN 50 MALE USERS, ONE WATER CLOSET AND ONE LAVATORY WILL BE SUFFICIENT. (G) TWO WATER CLOSETS AND TWO LAVATORIES SHALL BE PROVIDED FOR THE FIRST 100 FEMALE USERS. ONE ADDITIONAL WATER CLOSET AND LAVATORY SHALL BE PROVIDED FOR EACH ADDITIONAL 100 FEMALE USERS UP TO A TOTAL OF 500 USERS. WHERE USER LOAD EXCEEDS 500 FEMALE USERS, TWO ADDITIONAL WATER CLOSETS AND ONE LAVATORY SHALL BE PROVIDED FOR EACH ADDITIONAL 250 FEMALE USERS.

WHERE THE MAXIMUM BATHER LOAD INCLUDES LESS THAN 50 FEMALE USERS, ONE WATER CLOSET AND ONE LAVATORY WILL BE SUFFICIENT. (H) SHOWERS SHALL BE PROVIDED IN THE PROPORTION OF ONE FOR EACH 200 PERSONS AT THE TIME OF MAXIMUM BATHER LOAD. (I) THE WATER HEATER SHALL BE INACCESSIBLE TO USERS. THE SYSTEM SHALL BE DESIGNED SUCH THAT WATER TEMPERATURE AT THE SHOWER HEADS AND LAVATORIES CANNOT EXCEED 110° FAHRENHEIT.

(J) SOAP DISPENSERS WITH EITHER LIQUID OR POWDERED SOAP SHALL BE PROVIDED AT EACH LAVATORY OR REQUIRED SHOWER. THE DISPENSER SHALL BE OF ALL METAL OR PLASTIC TYPE, WITH NO GLASS PERMITTED IN THESE UNITS. (K) IF MIRRORS ARE PROVIDED, THEY SHALL BE OF SHATTERPROOF MATERIALS.

(L) TOILET PAPER HOLDERS WITH TOILET PAPER SHALL BE PROVIDED AT EACH WATER CLOSET. (M) DRESSING AND SANITARY FACILITIES SHALL BE KEPT CLEAN AND IN GOOD REPAIR

FENCE/ BARRIER NOTE:

A) PUBLIC SWIMMING POOLS SHALL BE COMPLETELY ENCLOSED BY A FENCE, WALL, BUILDING, OR OTHER ENCLOSURE, OR ANY COMBINATION THEREOF, WHICH ENCLOSES THE SWIMMING POOL AREA SUCH THAT ALL OF THE FOLLOWING CONDITIONS ARE MET

(1) THE TOP OF THE BARRIER SHALL BE AT LEAST 48 INCHES ABOVE GRADE MEASURED ON THE SIDE OF THE BARRIER THAT FACES AWAY FROM THE SWIMMING POOL. THE MAXIMUM VERTICAL CLEARANCE BETWEEN GRADE AND THE BOTTOM OF THE BARRIER SHALL BE TWO INCHES MEASURED ON THE SIDE OF THE BARRIER THAT FACES AWAY FROM THE SWIMMING POOL; (2) OPENINGS IN THE BARRIER SHALL NOT ALLOW PASSAGE OF A FOUR-INCH-DIAMETER SPHERE AND SHALL PROVIDE NO EXTERNAL HANDHOLDS OR FOOTHOLDS. SOLID BARRIERS THAT DO NOT HAVE OPENINGS SHALL NOT CONTAIN INDENTATIONS OR PROTRUSIONS EXCEPT FOR NORMAL CONSTRUCTION TOLERANCES AND TOOLED MASONRY JOINTS; (3) WHERE THE BARRIER IS COMPOSED OF HORIZONTAL AND VERTICAL MEMBERS AND THE DISTANCE BETWEEN THE TOPS OF THE HORIZONTAL MEMBERS IS 45 INCHES OR MORE, SPACING BETWEEN THE VERTICAL MEMBERS SHALL NOT EXCEED FOUR INCHES. WHERE THERE ARE DECORATIVE CUTOUTS WITHIN THE VERTICAL MEMBERS, SPACING WITHIN THE CUTOUTS SHALL NOT EXCEED 1.75 INCHES IN WIDTH:

(4) WHERE THE BARRIER IS COMPOSED OF HORIZONTAL AND VERTICAL MEMBERS AND THE DISTANCE BETWEEN THE TOPS OF THE HORIZONTAL MEMBERS IS LESS THAN 45 INCHES, THE HORIZONTAL MEMBERS SHALL BE LOCATED ON THE SWIMMING POOL SIDE OF THE FENCE. SPACING BETWEEN THE VERTICAL MEMBERS SHALL NOT EXCEED 1.75 INCHES IN WIDTH. WHERE THERE ARE DECORATIVE CUTOUTS WITHIN THE VERTICAL MEMBERS, SPACING WITHIN THE CUTOUTS SHALL NOT EXCEED 1.75 INCHES IN WIDTH; (5) MAXIMUM MESH SIZE FOR CHAIN LINK FENCES SHALL BE A 2.25 INCH SQUARE UNLESS THE FENCE IS PROVIDED WITH SLATS FASTENED AT THE TOP OR THE BOTTOM THAT REDUCE THE OPENINGS TO NO MORE THAN 1.75 INCHES; (6) WHERE THE BARRIER IS COMPOSED OF DIAGONAL MEMBERS, THE MAXIMUM OPENING FORMED BY THE DIAGONAL MEMBERS SHALL BE NO MORE THAN 1.75 INCHES:

(7) ACCESS GATES SHALL COMPLY WITH THE DIMENSIONAL REQUIREMENTS FOR FENCES AND SHALL BE EQUIPPED TO ACCOMMODATE A LOCKING DEVICE. EFFECTIVE APRIL 1, 2011, PEDESTRIAN ACCESS GATES SHALL OPEN OUTWARD AWAY FROM THE POOL AND SHALL BE SELF-CLOSING AND HAVE A SELF-LATCHING DEVICE EXCEPT WHERE A GATE ATTENDANT AND LIFEGUARD ARE ON DUTY. GATES OTHER THAN PEDESTRIAN ACCESS GATES SHALL HAVE A SELF-LATCHING DEVICE. WHERE THE RELEASE MECHANISM OF THE SELF-LATCHING DEVICE IS LOCATED LESS THAN 54 INCHES FROM THE BOTTOM OF THE GATE, THE RELEASE MECHANISM SHALL REQUIRE THE USE OF A KEY, COMBINATION OR CARD READER TO OPEN OR SHALL BE LOCATED ON THE POOL SIDE OF THE GATE AT LEAST THREE INCHES BELOW THE TOP OF THE GATE, AND THE GATE AND BARRIER SHALL HAVE NO OPENINGS GREATER THAN 0.5 INCH WITHIN 18 INCHES OF THE RELEASE MECHANISM; AND

(8) GROUND LEVEL DOORS AND WINDOWS OPENING FROM OCCUPIED BUILDINGS TO INSIDE THE POOL ENCLOSURE SHALL BE SELF-CLOSING

OR CHILD PROTECTED BY MEANS OF A BARRIER OR AUDIBLE ALARM.

- SLIP RESISTANT. DECKS, RAMPS, COPING, AND SIMILAR STEP SURFACES SHALL BE SLIP RESISTANT AND CLEANABLE. SPECIAL FEATURES IN OR ON DECKS SUCH AS MARKERS, BRAND INSIGNIAS, AND SIMILAR MATERIALS SHALL BE SLIP RESISTANT.

- PUBLIC POOL AND SPA DECK STEPS HAVING THREE OR MORE RISERS SHALL BE PROVIDED WITH A HANDRAIL. - STEP RISERS FOR DECKS OF PUBLIC POOLS AND SPAS SHALL BE UNIFORM AND HAVE A HEIGHT NOT LESS THAN 33/4 INCHES (95 MM) AND NOT GREATER THAN 71/2 INCHES (191 MM). THE TREAD DISTANCE FROM FRONT TO BACK SHALL BE NOT LESS THAN 11 INCHES (279 MM). STEP RISERS FOR DECKS OF RESIDENTIAL POOLS AND SPAS SHALL BE UNIFORM AND SHALL HAVE A HEIGHT NOT EXCEEDING 71/2 INCHES (191 MM). THE TREAD DISTANCE FROM FRONT TO BACK SHALL BE NOT LESS THAN 10 INCHES (254 MM).

DECKS AND DECK EQUIPMENT

- A DECK OR UNOBSTRUCTED ACCESS SHALL BE PROVIDED FOR NOT LESS THAN 90 PERCENT OF THE POOL PERIMETER.

- DECKING NOT LESS THAN 4 FEET (1219 MM) IN WIDTH SHALL BE PROVIDED ON THE SIDES AND REAR OF ANY DIVING EQUIPMENT. A DECK CLEARANCE OF 4 FEET (1219 MM) SHALL BE PROVIDED AROUND ALL OTHER DECK EQUIPMENT.

- DECKS BETWEEN POOLS, SPAS OR ANY COMBINATION OF POOLS AND SPAS, SHALL HAVE A WIDTH OF NOT LESS THAN 6 FEET (1829 MM). - WALKING SURFACES OF DECKS WITHIN 4 FEET (1219 MM) OF A POOL OR SPA SHALL BE SLIP RESISTANT. - SWIMMING POOL SLIDES SHALL COMPLY WITH THE REQUIREMENTS OF 16 CFR, PART 1207. THE MANUFACTURER OF THE SLIDE SHALL PROVIDE INSTALLATION AND USE INSTRUCTIONS FOR THE SLIDE. SLIDES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

LIFESAVING EQUIPMENT & SAFETY PROVISIONS

(A) SWIMMING POOLS SHALL HAVE LIFESAVING EQUIPMENT CONSPICUOUSLY AND CONVENIENTLY ON HAND AT ALL TIMES. A UNIT OF LIFESAVING EQUIPMENT SHALL INCLUDE THE FOLLOWING:

(1) A POLE NOT LESS THAN 12 FEET LONG, WITH A BODY HOOK SECURELY ATTACHED. THE POLE ATTACHED TO THE BODY HOOK SHALL BE NON-TELESCOPING, NON-ADJUSTABLE AND NON-COLLAPSIBLE.

(2) A MINIMUM ¼ INCH DIAMETER THROWING ROPE AS LONG AS ONE AND ONE-HALF TIMES THE MAXIMUM WIDTH OF THE POOL OR 50 FEET, WHICHEVER IS LESS, ATTACHED TO A U.S. COAST GUARD APPROVED RING BUOY. A RESCUE TUBE OR RESCUE CAN SHALL BE ACCEPTED AS A SUBSTITUTE FOR THE RING BUOY WHERE IT IS ACCOMPANIED BY A LIFEGUARD WHO HAS BEEN TRAINED TO USE IT PROPERLY.

(B) TWO UNITS OF LIFESAVING EQUIPMENT MUST BE PROVIDED FOR ANY POOL THAT EXCEEDS 3,000 SQUARE FEET

(186 SQ M) OF TOTAL SURFACE AREA.

(C) WHEN A SWIMMING POOL DOES NOT HAVE AT LEAST ONE LIFEGUARD ON DUTY, A SIGN SHALL BE POSTED WITH LEGIBLE LETTERS OF AT LEAST FOUR INCHES (10 CM) IN HEIGHT STATING: "WARNING-NO LIFEGUARD ON DUTY." IN ADDITION THERE SHALL BE SIGNS LEGIBLE FROM ALL BATHER ENTRANCES WITH A MINIMUM LETTER SIZE OF ONE INCH STATING: "CHILDREN SHOULD NOT USE THE SWIMMING POOL WITHOUT ADULT SUPERVISION", AND: "ADULTS SHOULD NOT SWIM ALONE". WADING POOLS THAT DO NOT HAVE A LIFEGUARD INSIDE THE WADING POOL ENCLOSURE SHALL HAVE A SIGN POSTED STATING "WARNING NO LIFEGUARD ON DUTY". SUCH SIGNS SHALL BE MOUNTED PERMANENTLY. (D) A SIGN PROHIBITING PETS AND GLASS CONTAINERS IN THE POOL AREA SHALL BE PROVIDED. (E) POOL CLOSED SIGNS SHALL BE PROVIDED AND SHALL BE POSTED AT BATHER ENTRANCES WHENEVER AN

OPERATION PERMIT IS SUSPENDED FOR WATER QUALITY OR SAFETY VIOLATIONS. (F) A TELEPHONE CAPABLE OF DIRECTLY DIALING 911 OR OTHER EMERGENCY NOTIFICATION SYSTEM SHALL BE PROVIDED AND ACCESSIBLE TO ALL POOL USERS. EFFECTIVE APRIL 1, 2005 THE TELEPHONE SHALL BE PERMANENTLY AFFIXED TO A LOCATION INSIDE THE POOL ENCLOSURE OR OUTSIDE THE ENCLOSURE WITHIN 75 FEET OF A BATHER ENTRANCE. THE TELEPHONE SHALL BE VISIBLE FROM WITHIN

THE POOL ENCLOSURE OR A SIGN SHALL BE POSTED INDICATING THE LOCATION OF THE EMERGENCY TELEPHONE. A SIGN WITH LEGIBLE LETTERS SHALL BE POSTED AT THE TELEPHONE PROVIDING DIALING INSTRUCTIONS, ADDRESS OF THE POOL LOCATION AND THE TELEPHONE NUMBER. WHERE THE TELEPHONE DOES NOT DIRECTLY ACCESS 911, THE EMERGENCY NOTIFICATION SYSTEM SHALL:

(2) BE CAPABLE OF ROUTING CALLS TO THE LOCAL 911 TELECOMMUNICATOR VIA THE 911 DEDICATED EMERGENCY TRUNK LINE; AND

(1) PROVIDE 24 HOUR MONITORING OF ALL INCOMING CALLS BY A TELECOMMUNICATOR WHO ANSWERS

(3) ELECTRONICALLY TRANSFER AUTOMATIC NUMBER IDENTIFICATION AND AUTOMATIC LOCATOR IDENTIFICATION FOR THE EMERGENCY TELEPHONE AT THE POOL TO THE ENHANCED 911 SYSTEM FOR ALL CALLS ROUTED TO 911.

POOL RULES SIGN:

- THE OWNER SHALL PROVIDE POOL RULES SIGNS WHICH SHALL BE POSTED IN A CONSPICUOUS PLACES IN THE POOL AREA.

- LETTERING SHALL BE BOLD AND LEGIBLE.

- THE SIGNS SHALL CONTAIN, AS A MINIMUM, THE FOLLOWING ITEMS:

• THERE SHOULD BE NO SOLO SWIMMING. • THERE SHOULD BE NO RUNNING BOISTEROUS OR ROUGH PLAY.

• PERSONS UNDER THE INFLUENCE OF ALCOHOL OR DRUGS SHOULD NOT USE THE POOL • THERE SHOULD BE NO SPITTING OR NOSE BLOWING IN THE POOL.

• PERSONS WITH DIARRHEAL ILLNESS OR NAUSEA SHOULD NOT USE THE POOL.

• PERSONS WITH SKIN. EYE. EAR OR RESPIRATORY INFECTIONS SHOULD NOT USE THE POOL.

• PERSONS WITH OPEN LESSONS OR WOUNDS SHOULD NOT ENTER THE POOL. • PETS OR ANIMALS NOT ALLOWED IN THE POOL.

• NO GLASS ALLOWED IN THE POOL OR ON THE POOL DECK.

• CHILDREN SHOULD NOT BE ALLOWED IN THE POOL WITHOUT SUPERVISION. • YOU SHOULD TAKE A SHOWER BEFORE ENTERING THE POOL.

• THE POOL IS OPEN FROM TO • THE MAXIMUM NUMBER OF PERSONS ALLOWED IN THE POOL IS

 A FIRST AID KIT IS LOCATED AT. AN EMERGENCY TELEPHONE IS LOCATED.

ADDITIONAL SIGNS:

THE SIGN SHALL CONTAIN, AS A MINIMUM, THE FOLLOWING ITEMS:

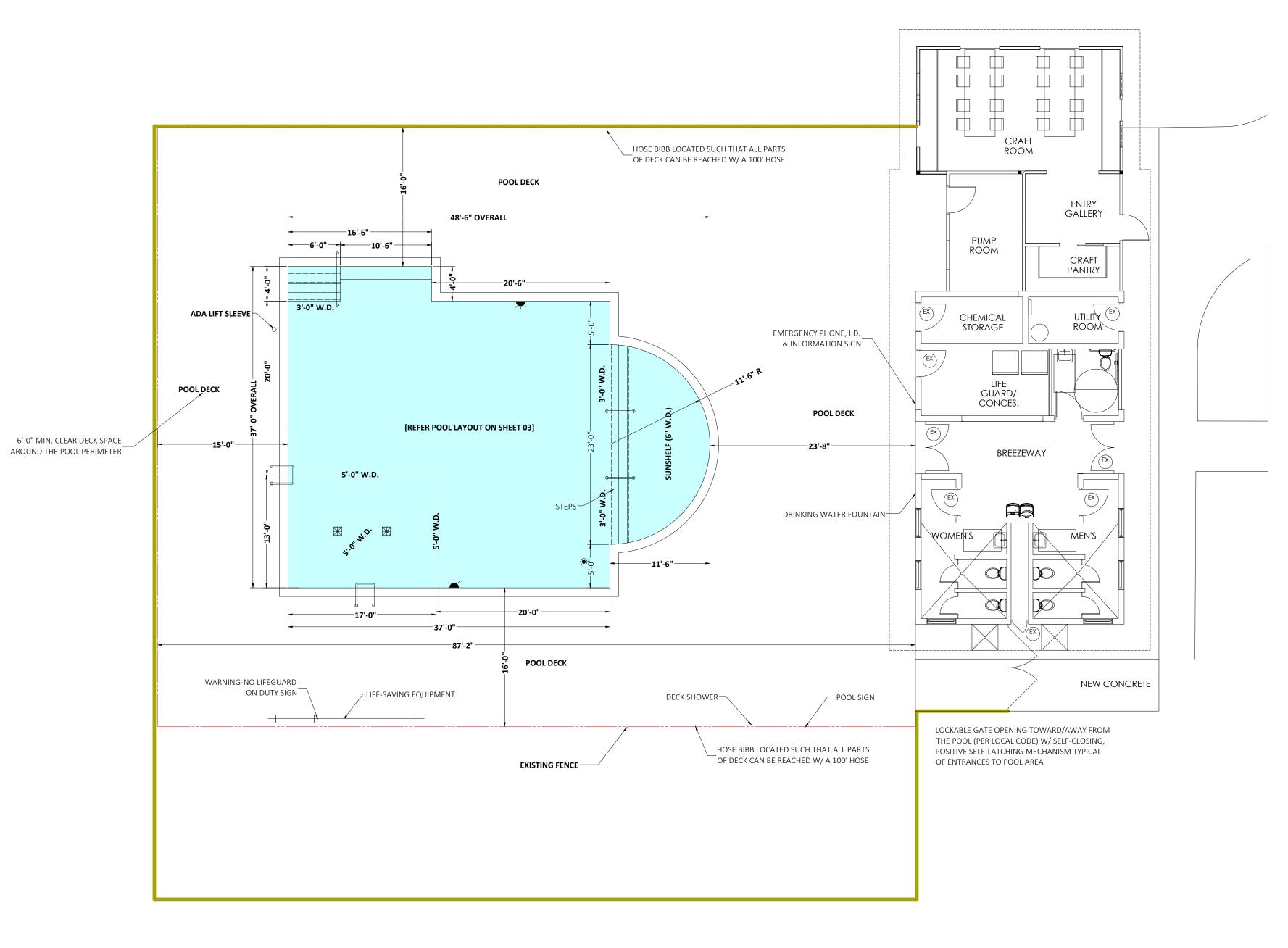
- THE OWNER SHALL PROVIDE (2) OR MORE "NO DIVING" SIGNS FOR POOLS NOT APPROVED FOR DIVING.

- THE LETTERING SHALL BE IN BOLD PRINT WITH CAPITAL LETTERS AND BE AS FOLLOWS: "SHALLOW WATER" (IN MINIMUM 4" HIGH LETTERING) "NO DIVING ALLOWED" (IN MINIMUM 6" HIGH LETTERING).

- THER ARE TO BE (1) OR MORE "WARNING-NO LIFEGUARD ON DUTY" SIGNS PLACED AS PLACED ON THE PLANS. - THER SHALL BE A SIGN WITH A MINIMUM LETTER SIZE OF 1" STATING "CHILDREN SHOULD NOT USE THE SWIMMING

POOL WITHOUT ADULT SUPERVISION", AND "ADULTS SHOULD NOT SWIM ALONE". - THERE SHALL BE A SIGN CONSPICUOUSLY POSTED STATING "THE CERTIFIED POOL OPERATOR AT THIS FACILITY

., STATE CERTIFICATION NUMBER (BLANKS MUST BE FILLED IN).



POOL LOCATION PLAN

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

SITE NOTE:

CONTRACTOR SHALL VERIFY AND CONSULT WITH ENGINEERS FOR POOL TO BE INSTALLED IN FLOOD HAZARD AREAS.

ERING UNIT 1 ERS TAM GUNDE 4161 ⁻ PORT

DESIGN DATE: 08/05/2024 REVISION 1 DATE REVISION 2: DATE SHEET:

PD

NTS

DRAWN BY:

DEPTH MARKERS

- DEPTH MARKERS SHALL BE INSTALLED AT THE MAXIMUM AND MINIMUM WATER DEPTHS AND AT ALL POINTS OF SLOPE CHANGE DEPTH MARKERS SHALL BE INSTALLED AT WATER DEPTH INCREMENTS NOT TO EXCEED 2 FEET (607 MM). DEPTH MARKERS SHALL BE SPACED AT INTERVALS NOT TO EXCEED 25 FEET (7620 MM).

- THE DEPTH OF WATER IN FEET (METERS) SHALL BE PLAINLY AND CONSPICUOUSLY MARKED ON THE VERTICAL POOL WALL AT OR ABOVE THE WATERLINE. EXCEPTION: POOLS WITH A VANISHING EDGE AND RIM FLOW GUTTERS.

- DEPTH MARKERS SHALL INDICATE THE ACTUAL POOL DEPTH WITHIN ± 3 INCHES (76 MM), AT NORMAL OPERATING WATER LEVEL WHERE MEASURED 3 FEET (914 MM) FROM THE POOL WALL OR AT THE TANGENT POINT WHERE THE COVE RADIUS MEETS THE

- DEPTH MARKERS ON THE VERTICAL POOL WALL SHALL BE POSITIONED TO BE READ FROM THE WATERSIDE. DEPTH MARKERS SHALL BE PLACED SO AS TO ALLOW AS MUCH OF THE NUMBERS TO BE VISIBLE ABOVE THE WATERLINE AS POSSIBLE. - DEPTH MARKERS ON THE DECK SHALL BE LOCATED WITHIN 18 INCHES (457 MM) OF THE WATER EDGE AND POSITIONED TO BE

READ WHILE STANDING ON THE DECK FACING THE WATER.

- HORIZONTAL DEPTH MARKERS SHALL BE SLIP RESISTANT. - DEPTH MARKERS SHALL BE DISTRIBUTED UNIFORMLY ON BOTH SIDES AND BOTH ENDS OF THE POOL.

- DEPTH MARKERS SHALL BE NOT LESS THAN 4 INCHES (102 MM) IN HEIGHT. THE COLOR OF THE NUMBERS SHALL CONTRAST WITH THE BACKGROUND ON WHICH THEY ARE APPLIED AND THE COLOR SHALL BE OF A PERMANENT NATURE. THE LETTERING SHALL SPELL OUT THE WORDS "FEET" AND "INCHES" OR ABBREVIATE THEM AS "FT." AND "IN." RESPECTIVELY. WHERE DISPLAYED IN METERS IN ADDITION TO FEET AND INCHES, THE WORD METER SHALL BE SPELLED OUT OR ABBREVIATED AS "M."

- WHERE THE POOL DEPTH IS 5 FEET (1524 MM) OR LESS, THE "NO DIVING" SYMBOL SHALL BE DISPLAYED. THE SYMBOL SHALL BE PLACED ON THE DECK AT INTERVALS OF NOT GREATER THAN 25 FEET (7620 MM) AND DIRECTLY ADJACENT TO A DEPTH MARKER ADDITIONAL SIGNAGE SHALL BE IN ACCORDANCE WITH NEMA Z535.

ENTRY AND EXIT

- POOLS SHALL HAVE NOT LESS THAN TWO MEANS OF ENTRY AND EXIT THAT ARE LOCATED SO AS TO SERVE BOTH ENDS OF A POOL. POOL LIFTS, TRANSFER WALLS AND TRANSFER SYSTEMS THAT PROVIDE FOR POOL ENTRY AND EXIT BY PERSONS WITH PHYSICAL DISABILITIES IN ACCORDANCE WITH SECTION 307.9 SHALL NOT BE COUNTED AS THE MEANS OF ENTRY OR EXIT THAT IS REQUIRED BY THIS SECTION.

- A MEANS OF ENTRY AND EXIT SHALL BE PROVIDED IN SHALLOW AREAS OF POOLS AND SHALL CONSIST OF POOL STAIRS, A RAMP OR A BEACH ENTRY.

- THE MEANS OF ENTRY AND EXIT IN THE DEEP AREA OF POOLS SHALL CONSIST OF ONE OF THE FOLLOWING: 1. STEPS/STAIRS. 2. LADDERS. 3. GRAB RAILS WITH RECESSED TREADS. 4. RAMPS. 5. BEACH ENTRIES. 6. SWIMOUTS. 7. OTHER DESIGNS THAT PROVIDE THE MINIMUM UTILITY AS SPECIFIED IN THIS CODE.

- SWIMMING POOLS GREATER THAN 30 FEET (9144 MM) IN WIDTH SHALL BE PROVIDED WITH ENTRIES AND EXITS ON EACH SIDE OF THE DEEP AREA OF THE POOL. THE ENTRIES AND EXITS ON THE SIDES OF THE DEEP AREA OF A POOL SHALL BE LOCATED NOT MORE THAN 82 FEET (25 M) APART.

- TREADS SHALL HAVE SLIP-RESISTANT SURFACES.

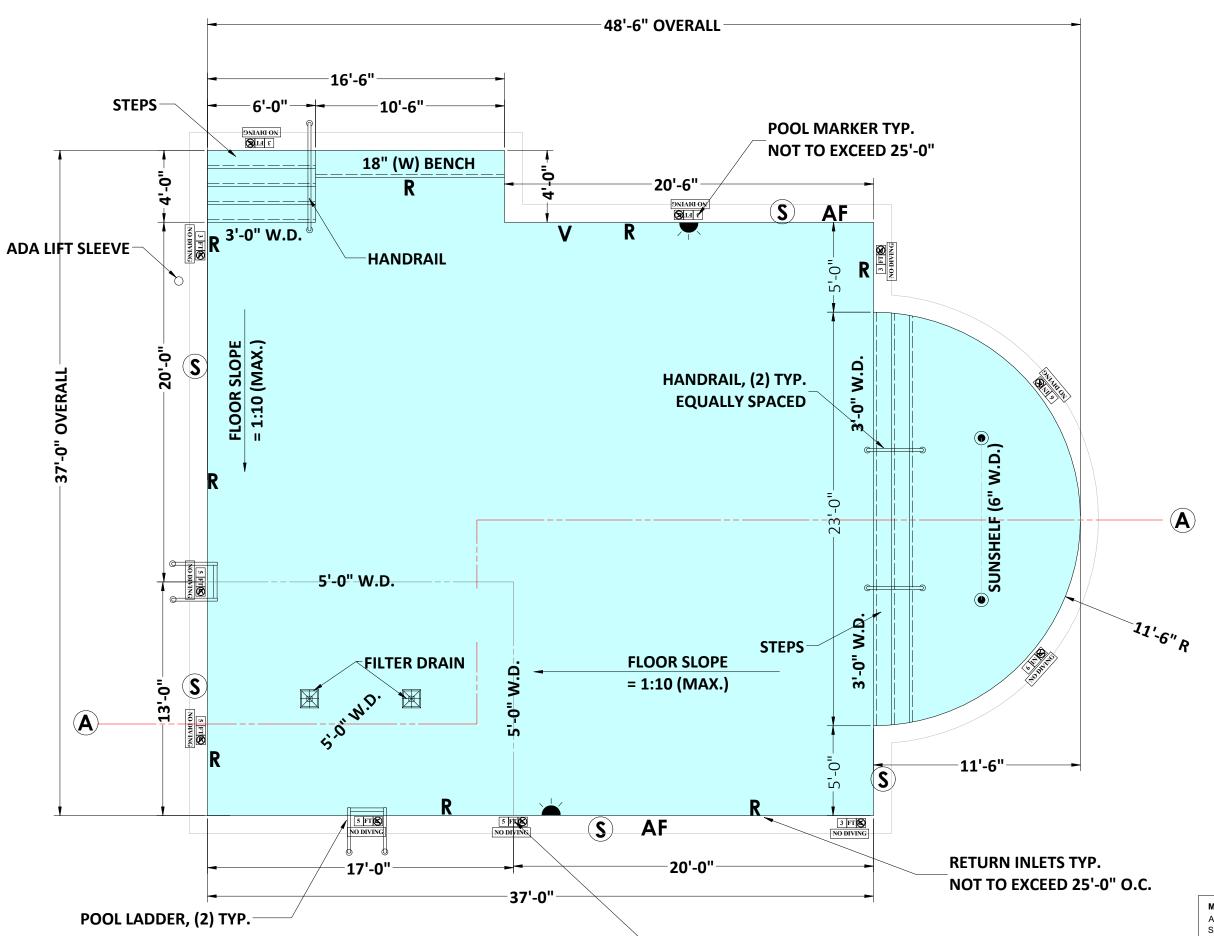
INLET NOTE:

• ALL INLETS SHALL BE ADJUSTABLE WITH WALL-TYPE INLETS BEING DIRECTIONALLY ADJUSTABLE AND

FLOOR-TYPE INLETS HAVING A MEANS OF FLOW ADJUSTMENT

• FLOOR INLETS SHALL BE DESIGNED AND INSTALLED SUCH THAT THEY DO NOT PROTRUDE ABOVE THE POOL FLOOR AND ALL INLETS SHALL BE DESIGNED AND INSTALLED SO AS NOT TO CONSTITUTE SHARP EDGES OR PROTRUSIONS HAZARDOUS TO POOL BATHERS. FLOOR INLETS FOR VINYL LINER AND FIBERGLASS POOLS, SHALL BE SMOOTH WITH NO SHARP EDGES, AND SHALL NOT EXTEND MORE THAN / INCH (9.5 MM)

• WALL INLETS SHALL BE INSTALLED A MINIMUM OF 12 INCHES (305 MM) BELOW THE NORMAL OPERATING WATER LEVEL UNLESS PRECLUDED BY THE POOL DEPTH OR INTENDED FOR A SPECIFIC ACCEPTABLE PURPOSE. • THE FLOW RATE THROUGH EACH INLET SHALL NOT EXCEED 20 GPM (1 L/S) EXCEPT FOR INLETS DESIGNED FOR HIGHER FLOWS AS SPECIFIED BY THE MANUFACTURER.



POOL LAYOUT PLAN

POOL MARKING ALONG

THE PERIMETER PER PLAN

(SCALE: 3/16" = 1'-0")

MAIN DRAINS AT LEAST 3' APART. MAXIMUM SPACING OF 20' C.C. & NOT MORE THAN 15' TO DRAIN CENTER FROM EACH SIDE WALL

DEPTH MARKER TO INDICATE THE ACTUAL

POOL WATER DEPTH WITHIN +/- 3 INCHES.

POOL DATA		
SIZE (OVERALL)	37'-0" X 48'-6"	
PERIMETER	161.167 LF	
AREA	1494.75 SF	
DEPTH	6" & 3'-0" TO 5'-0"	
VOLUME	42145 GALLONS	
FILTER RATE	125 GPM	
TURNOVER TIME	5.62 HR.	
(MAX.)BATHER LOAD	99 PERSONS	

(15 SQ. FT. PER BATHER)

DRAWING LEGENDS				
SYMBOLS	INDICATES	NOS.		
	MAIN DRAIN	(2) SETS		
•	FLOOR INLETS	2		
	LIGHT	2		
<u>S</u>	SKIMMER	5		
R	WALL RETURN	8		

ALL POOLS SHALL BE PROVIDED WITH A MINIMUM OF TWO MAINDRAINS, CONNECTED TO A COMMON LINE AND EVENLY SPACED AT THE DEEPEST POINT TO FACILITATE PROPER BOTTOM CIRCULATION AND PERMIT THE POOL TO BE COMPLETELY AND EASILY EMPTIED. EACH MAINDRAIN MUST HAVE THE CAPACITY TO HANDLE 100 PERCENT OF DESIGNED TURNOVER RATE, MAINDRAINS SHALL BE COVERED BY PROPER GRATING WHICH IS SECURED, OPENINGS OF THE GRATING SHALL BE AT LEAST FOUR (4) TIMES THE AREA OF THE SUCTION LINE. NO DIRECT CONNECTIONS TO SEWERS SHALL BE PERMITTED. Waterway Technical Bulletin: VGB2008 640-472x V 12" x 12" Grate and Frame Waterway grates and frames are compliant with the Virginia Graeme-Baker Pool and Sna Safety Act (ASME/ANSI A112 19.8-2007) and are III. Certified They are designed for single or multiple drain use. This grate assembly includes frame and stainless steel screws. Packed 6 per case. The Waterway 640-472x V series grates and frames are available in: ☐ White ■ Black ☐ Gray ☐ Dark Gray ☐ Beige 356 @ 1.83 ft/sec 280 @ 1.44 ft/sec 292

DESIGN DATE: 08/05/2024 DATE

NTS 7 U3

LADDERS AND RECESSED TREADS

LADDER TREADS SHALL HAVE A UNIFORM HORIZONTAL DEPTH OF NOT LESS THAN 2 INCHES (51 MM). THERE SHALL BE A UNIFORM DISTANCE BETWEEN LADDER TREADS, WITH A DISTANCE OF NOT LESS THAN 7 INCHES (178 MM) AND NOT GREATER THAN 12 INCHES (305 MM). THE TOP TREAD OF A LADDER SHALL BE LOCATED NOT GREATER THAN 12 INCHES (305 MM) BELOW THE TOP OF THE DECK OR COPING. LADDER TREADS SHALL HAVE SLIP-RESISTANT SURFACES.

- THERE SHALL BE A CLEARANCE OF NOT LESS THAN 3 INCHES (76 MM) AND NOT GREATER THAN 6 INCHES (152 MM) BETWEEN THE POOL WALL AND THE LADDER.

- LADDERS SHALL BE PROVIDED WITH TWO HANDHOLDS OR TWO HANDRAILS. THE CLEAR DISTANCE BETWEEN LADDER HANDRAILS SHALL BE NOT LESS THAN 17 INCHES (432 MM) AND NOT GREATER THAN 24 INCHES (610 MM)

- RECESSED TREADS SHALL HAVE A MINIMUM DEPTH OF NOT LESS THAN 5 INCHES (127 MM) AND A WIDTH OF NOT LESS THAN 12 INCHES (305 MM). THE VERTICAL DISTANCE BETWEEN THE POOL COPING EDGE, DECK, OR STEP SURFACE AND THE UPPERMOST RECESSED TREAD SHALL BE NOT GREATER THAN 12 INCHES (305 MM).

RECESSED TREADS SHALL HAVE SLIP-RESISTANT SURFACES. - RECESSED TREADS AT THE CENTERLINE SHALL HAVE A UNIFORM VERTICAL SPACING OF NOT LESS THAN 7 INCHES (178 MM) AND NOT GREATER THAN 12 INCHES (305 MM).

-RECESSED TREADS SHALL BE PROVIDED WITH A HANDRAIL OR GRAB RAIL ON EACH SIDE OF THE TREADS. THE CLEAR DISTANCE BETWEEN HANDRAILS AND GRAB RAILS SHALL BE NOT LESS THAN 17 INCHES (432 MM) AND NOT GREATER THAN 24 INCHES (610 MM).

> 8" THICK CONCRETE WALL REINF. W/ #4 @ 12" O.C. EACH WAY, CENTER STEEL IN WALL U.O.N. CONCRETE ON-POOL WALL SHALL BE ALL IN A SINGLE POURED.

> > NO COLD JOINTS ALLOWED.

POOL PROFLE SECTION (A-A)

(SCALE: 3/8" = 1'-0")

STAINLESS STEEL HANDRAIL HAVING AN OUTSIDE DIA. BETWEEN 1" TO 1.9"; TOP OF GRIPPING SURFACE AT 34"-38" ABOVE DECK/ STEP/ FLOOR

-6" W.D. @SUNSHELF

6'-0" MIN. POOL DECK W/ NON-SLIP FINISH -SLOPED (1/4" - 1/2" PER FOOT) AWAY FROM THE POOL (ENTIRE PERIMETER)

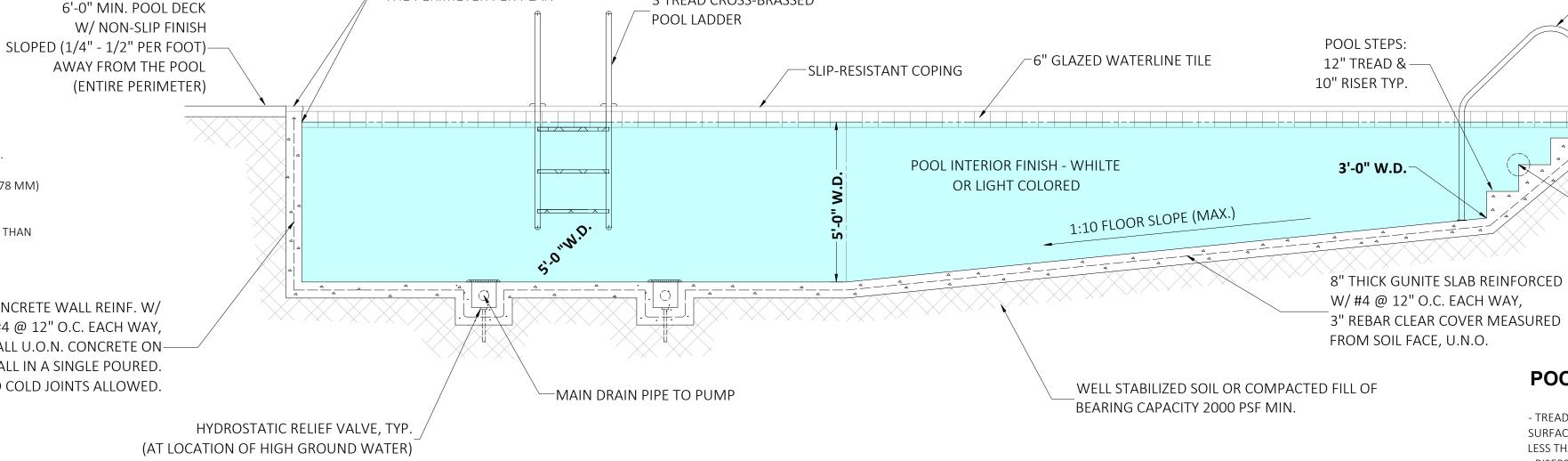
SLIP RESISTANT CONSTRASTING MARKING -PROVIDED FOR INTERSECTION OF TREAD AND RISER FOR ENTIRE LENGTH OF EACH STEP TYP.

POOL STAIRS

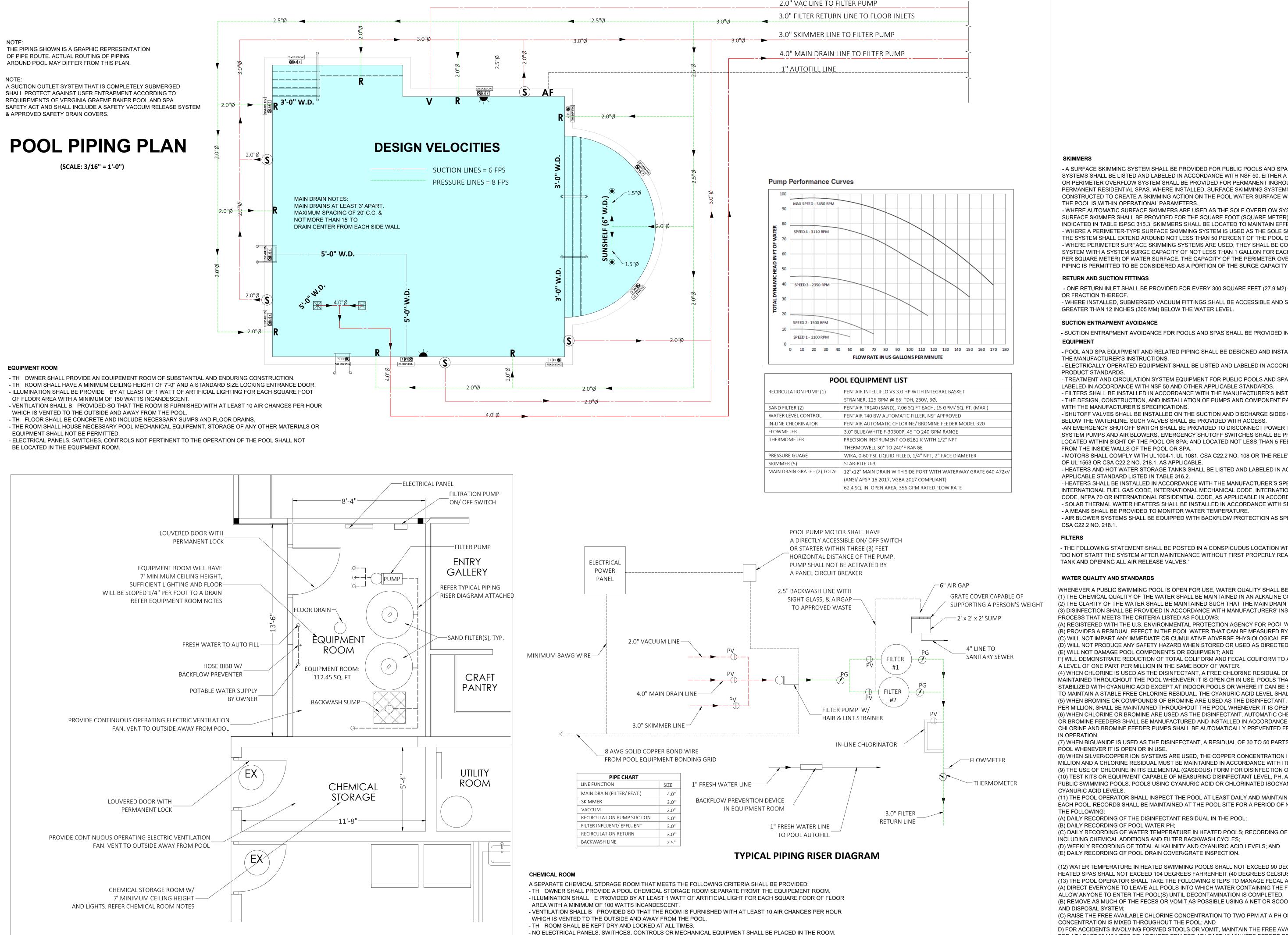
- TREADS SHALL BE NOT LESS THAN 24 INCHES (607 MM) AT THE LEADING EDGE. TREADS SHALL HAVE AN UNOBSTRUCTED SURFACE AREA OF NOT LESS THAN 240 SQUARE INCHES (0.154 M2) AND AN UNOBSTRUCTED HORIZONTAL DEPTH OF NOT LESS THAN 10 INCHES (254 MM) AT THE CENTERLINE.

- RISERS, EXCEPT FOR THE BOTTOM RISER, SHALL HAVE A UNIFORM HEIGHT OF NOT GREATER THAN 12 INCHES (305 MM) MEASURED AT THE CENTERLINE. THE BOTTOM RISER HEIGHT IS ALLOWED TO VARY TO THE FLOOR. - THE VERTICAL DISTANCE FROM THE POOL COPING, DECK, OR STEP SURFACE TO THE UPPERMOST TREAD SHALL BE

NOT GREATER THAN 12 INCHES (305 MM). - WHERE STAIRS ARE LOCATED IN WATER DEPTHS GREATER THAN 48 INCHES (1219 MM), THE LOWEST TREAD SHALL BE NOT LESS THAN 48 INCHES (1219 MM) BELOW THE DECK AND SHALL BE RECESSED IN THE POOL WALL.



3 TREAD CROSS-BRASSED



- CH MICAL SHALL BE LOCATED A MINIMUM OF 6" ABOVE THE FLOOR.

SQUARE FOOT FOR EACH ADDITIONAL 3000 GALLONS.

- CH MICAL ROOMS SHALL BE A MINIMUM OF 5 SQUARE FEET FOR THE FIRST 10,000 GALLONS AND 1 ADDITIONAL

POOL EQUIPMENT ROOM LAYOUT PLAN

(SCALE: 3/8'' = 1')

- A SURFACE SKIMMING SYSTEM SHALL BE PROVIDED FOR PUBLIC POOLS AND SPAS. SURFACE SKIMMING SYSTEMS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH NSF 50. EITHER A SURFACE SKIMMING SYSTEM OR PERIMETER OVERFLOW SYSTEM SHALL BE PROVIDED FOR PERMANENT INGROUND RESIDENTIAL POOLS AND PERMANENT RESIDENTIAL SPAS. WHERE INSTALLED, SURFACE SKIMMING SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED TO CREATE A SKIMMING ACTION ON THE POOL WATER SURFACE WHEN THE WATER LEVEL IN THE POOL IS WITHIN OPERATIONAL PARAMETERS

- WHERE AUTOMATIC SURFACE SKIMMERS ARE USED AS THE SOLE OVERFLOW SYSTEM, NOT LESS THAN ONE SURFACE SKIMMER SHALL BE PROVIDED FOR THE SQUARE FOOT (SQUARE METER) AREAS, OR FRACTIONS THEREOF INDICATED IN TABLE ISPSC 315.3. SKIMMERS SHALL BE LOCATED TO MAINTAIN EFFECTIVE SKIMMING ACTION. - WHERE A PERIMETER-TYPE SURFACE SKIMMING SYSTEM IS USED AS THE SOLE SURFACE SKIMMING SYSTEM THE SYSTEM SHALL EXTEND AROUND NOT LESS THAN 50 PERCENT OF THE POOL OR SPA PERIMETER. - WHERE PERIMETER SURFACE SKIMMING SYSTEMS ARE USED, THEY SHALL BE CONNECTED TO A CIRCULATION SYSTEM WITH A SYSTEM SURGE CAPACITY OF NOT LESS THAN 1 GALLON FOR EACH SQUARE FOOT (40.7 LITERS PER SQUARE METER) OF WATER SURFACE. THE CAPACITY OF THE PERIMETER OVERFLOW SYSTEM AND RELATED

RETURN AND SUCTION FITTINGS

- ONE RETURN INLET SHALL BE PROVIDED FOR EVERY 300 SQUARE FEET (27.9 M2) OF POOL SURFACE AREA, OR FRACTION THEREOF.

- WHERE INSTALLED, SUBMERGED VACUUM FITTINGS SHALL BE ACCESSIBLE AND SHALL BE LOCATED NOT GREATER THAN 12 INCHES (305 MM) BELOW THE WATER LEVEL.

SUCTION ENTRAPMENT AVOIDANCE

- SUCTION ENTRAPMENT AVOIDANCE FOR POOLS AND SPAS SHALL BE PROVIDED IN ACCORDANCE WITH APSP 7.

- POOL AND SPA EQUIPMENT AND RELATED PIPING SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

- ELECTRICALLY OPERATED EQUIPMENT SHALL BE LISTED AND LABELED IN ACCORDANCE WITH APPLICABLE PRODUCT STANDARDS.

- TREATMENT AND CIRCULATION SYSTEM EQUIPMENT FOR PUBLIC POOLS AND SPAS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH NSF 50 AND OTHER APPLICABLE STANDARDS.

- FILTERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. - THE DESIGN, CONSTRUCTION, AND INSTALLATION OF PUMPS AND COMPONENT PARTS SHALL BE IN ACCORDANCE

WITH THE MANUFACTURER'S SPECIFICATIONS. - SHUTOFF VALVES SHALL BE INSTALLED ON THE SUCTION AND DISCHARGE SIDES OF PUMPS THAT ARE LOCATED

BELOW THE WATERLINE. SUCH VALVES SHALL BE PROVIDED WITH ACCESS. -AN EMERGENCY SHUTOFF SWITCH SHALL BE PROVIDED TO DISCONNECT POWER TO RECIRCULATION AND JET SYSTEM PUMPS AND AIR BLOWERS. EMERGENCY SHUTOFF SWITCHES SHALL BE PROVIDED WITH ACCESS; LOCATED WITHIN SIGHT OF THE POOL OR SPA; AND LOCATED NOT LESS THAN 5 FEET (1524 MM) HORIZONTALLY

FROM THE INSIDE WALLS OF THE POOL OR SPA. - MOTORS SHALL COMPLY WITH UL1004-1, UL 1081, CSA C22.2 NO. 108 OR THE RELEVANT MOTOR REQUIREMENTS OF UL 1563 OR CSA C22.2 NO. 218.1, AS APPLICABLE.

- HEATERS AND HOT WATER STORAGE TANKS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH THE

APPLICABLE STANDARD LISTED IN TABLE 316.2. - HEATERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND THE

INTERNATIONAL FUEL GAS CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL ENERGY CONSERVATION CODE, NFPA 70 OR INTERNATIONAL RESIDENTIAL CODE, AS APPLICABLE IN ACCORDANCE WITH SECTION - SOLAR THERMAL WATER HEATERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 316.6.

- A MEANS SHALL BE PROVIDED TO MONITOR WATER TEMPERATURE. - AIR BLOWER SYSTEMS SHALL BE EQUIPPED WITH BACKFLOW PROTECTION AS SPECIFIED IN UL 1563 OR CSA C22.2 NO. 218.1.

- THE FOLLOWING STATEMENT SHALL BE POSTED IN A CONSPICUOUS LOCATION WITHIN THE AREAS OF THE AIR RELEASE: "DO NOT START THE SYSTEM AFTER MAINTENANCE WITHOUT FIRST PROPERLY REASSEMBLING THE FILTER AND SEPARATION

TANK AND OPENING ALL AIR RELEASE VALVES."

WATER QUALITY AND STANDARDS

WHENEVER A PUBLIC SWIMMING POOL IS OPEN FOR USE, WATER QUALITY SHALL BE MAINTAINED IN ACCORDANCE WITH THE FOLLOWING: (1) THE CHEMICAL QUALITY OF THE WATER SHALL BE MAINTAINED IN AN ALKALINE CONDITION AT ALL TIMES WITH THE PH BETWEEN 7.2 AND 7.8. (2) THE CLARITY OF THE WATER SHALL BE MAINTAINED SUCH THAT THE MAIN DRAIN GRATE IS VISIBLE FROM THE POOL DECK AT ALL TIMES. (3) DISINFECTION SHALL BE PROVIDED IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS FOR ALL POOLS BY A CHEMICAL OR OTHER PROCESS THAT MEETS THE CRITERIA LISTED AS FOLLOWS:

(A) REGISTERED WITH THE U.S. ENVIRONMENTAL PROTECTION AGENCY FOR POOL WATER OR POTABLE WATER;

(B) PROVIDES A RESIDUAL EFFECT IN THE POOL WATER THAT CAN BE MEASURED BY PORTABLE FIELD TEST EQUIPMENT;

(C) WILL NOT IMPART ANY IMMEDIATE OR CUMULATIVE ADVERSE PHYSIOLOGICAL EFFECTS TO POOL BATHERS WHEN USED AS DIRECTED; (D) WILL NOT PRODUCE ANY SAFETY HAZARD WHEN STORED OR USED AS DIRECTED; (E) WILL NOT DAMAGE POOL COMPONENTS OR EQUIPMENT; AND

F) WILL DEMONSTRATE REDUCTION OF TOTAL COLIFORM AND FECAL COLIFORM TO A LEVEL AT LEAST EQUIVALENT TO FREE CHLORINE AT A LEVEL OF ONE PART PER MILLION IN THE SAME BODY OF WATER.

(4) WHEN CHLORINE IS USED AS THE DISINFECTANT, A FREE CHLORINE RESIDUAL OF AT LEAST ONE PART PER MILLION (PPM) SHALL BE MAINTAINED THROUGHOUT THE POOL WHENEVER IT IS OPEN OR IN USE. POOLS THAT USE CHLORINE AS THE DISINFECTANT MUST BE

STABILIZED WITH CYANURIC ACID EXCEPT AT INDOOR POOLS OR WHERE IT CAN BE SHOWN THAT CYANURIC ACID IS NOT NECESSARY TO MAINTAIN A STABLE FREE CHLORINE RESIDUAL. THE CYANURIC ACID LEVEL SHALL NOT EXCEED 100 PARTS PER MILLION.

(5) WHEN BROMINE OR COMPOUNDS OF BROMINE ARE USED AS THE DISINFECTANT, A FREE BROMINE RESIDUAL OF AT LEAST TWO PARTS PER MILLION, SHALL BE MAINTAINED THROUGHOUT THE POOL WHENEVER IT IS OPEN OR IN USE. (6) WHEN CHLORINE OR BROMINE ARE USED AS THE DISINFECTANT, AUTOMATIC CHEMICAL FEEDERS SHALL BE USED. AUTOMATIC CHLORINE

OR BROMINE FEEDERS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH NSF/ANSI STANDARD NUMBER 50. AUTOMATIC CHLORINE AND BROMINE FEEDER PUMPS SHALL BE AUTOMATICALLY PREVENTED FROM OPERATING WHEN THE CIRCULATION PUMP IS NOT

(7) WHEN BIGUANIDE IS USED AS THE DISINFECTANT, A RESIDUAL OF 30 TO 50 PARTS PER MILLION SHALL BE MAINTAINED THROUGHOUT THE POOL WHENEVER IT IS OPEN OR IN USE.

(8) WHEN SILVER/COPPER ION SYSTEMS ARE USED, THE COPPER CONCENTRATION IN THE POOL WATER SHALL NOT EXCEED ONE PART PER

MILLION AND A CHLORINE RESIDUAL MUST BE MAINTAINED IN ACCORDANCE WITH ITEM (4) OF THIS RULE (9) THE USE OF CHLORINE IN ITS ELEMENTAL (GASEOUS) FORM FOR DISINFECTION OF PUBLIC SWIMMING POOLS IS PROHIBITED.

(10) TEST KITS OR EQUIPMENT CAPABLE OF MEASURING DISINFECTANT LEVEL, PH, AND TOTAL ALKALINITY MUST BE MAINTAINED AT ALL PUBLIC SWIMMING POOLS. POOLS USING CYANURIC ACID OR CHLORINATED ISOCYANURATES MUST HAVE A TEST KIT CAPABLE OF MEASURING CYANURIC ACID LEVELS.

(11) THE POOL OPERATOR SHALL INSPECT THE POOL AT LEAST DAILY AND MAINTAIN WRITTEN RECORDS OF THE OPERATING CONDITIONS OF EACH POOL. RECORDS SHALL BE MAINTAINED AT THE POOL SITE FOR A PERIOD OF NOT LESS THAN SIX MONTHS. RECORDS SHALL INCLUDE THE FOLLOWING:

(A) DAILY RECORDING OF THE DISINFECTANT RESIDUAL IN THE POOL;

(B) DAILY RECORDING OF POOL WATER PH;

(C) DAILY RECORDING OF WATER TEMPERATURE IN HEATED POOLS; RECORDING OF ACTIVITIES PERTAINING TO POOL WATER MAINTENANCE

INCLUDING CHEMICAL ADDITIONS AND FILTER BACKWASH CYCLES; (D) WEEKLY RECORDING OF TOTAL ALKALINITY AND CYANURIC ACID LEVELS; AND

(E) DAILY RECORDING OF POOL DRAIN COVER/GRATE INSPECTION.

(12) WATER TEMPERATURE IN HEATED SWIMMING POOLS SHALL NOT EXCEED 90 DEGREES FAHRENHEIT (32 DEGREES CELSIUS) AND IN

HEATED SPAS SHALL NOT EXCEED 104 DEGREES FAHRENHEIT (40 DEGREES CELSIUS). (13) THE POOL OPERATOR SHALL TAKE THE FOLLOWING STEPS TO MANAGE FECAL AND VOMITUS ACCIDENTS:

(A) DIRECT EVERYONE TO LEAVE ALL POOLS INTO WHICH WATER CONTAINING THE FECES OR VOMIT IS CIRCULATED AND DO NOT

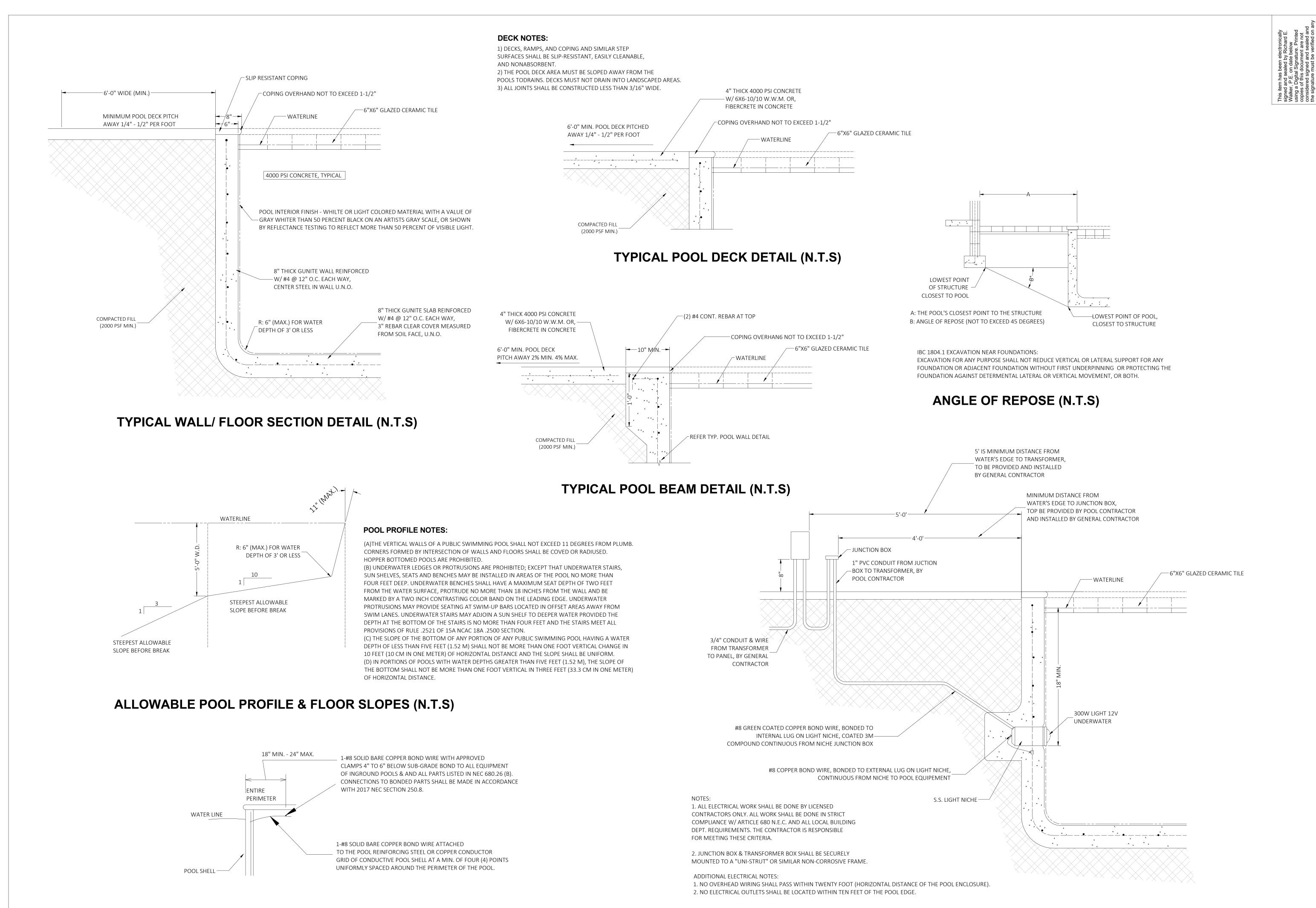
ALLOW ANYONE TO ENTER THE POOL(S) UNTIL DECONTAMINATION IS COMPLETED; (B) REMOVE AS MUCH OF THE FECES OR VOMIT AS POSSIBLE USING A NET OR SCOOP AND DISPOSE OF IT IN A SEWAGE TREATMENT

AND DISPOSAL SYSTEM; (C) RAISE THE FREE AVAILABLE CHLORINE CONCENTRATION TO TWO PPM AT A PH OF 7.2 TO 7.5 AND TEST TO ASSURE THE CHLORINE

CONCENTRATION IS MIXED THROUGHOUT THE POOL; AND D) FOR ACCIDENTS INVOLVING FORMED STOOLS OR VOMIT, MAINTAIN THE FREE AVAILABLE CHLORINE CONCENTRATION AT TWO PPM FOR AT LEAST 25 MINUTES OR AT THREE PPM FOR AT LEAST 19 MINUTES BEFORE REOPENING THE POOL. FOR ACCIDENTS INVOLVING LIQUID STOOLS INCREASE THE FREE CHLORINE RESIDUAL AND CLOSURE TIME TO REACH A CT INACTIVATION VALUE OF 15,300 THEN

BACKWASH THE POOL FILTER BEFORE REOPENING THE POOL. CT REFERS TO CONCENTRATION (C) OF FREE AVAILABLE CHLORINE IN PARTS PER MILLION MULTIPLIED BY TIME (T) IN MINUTES.





EQUIPOTENTIAL BONDING DETAIL (2020 NCEC)

TYPICAL POOL LIGHT, JUNCTION BOX & TRANSFORMER DETAIL (N.T.S)

DESIGN DATE: