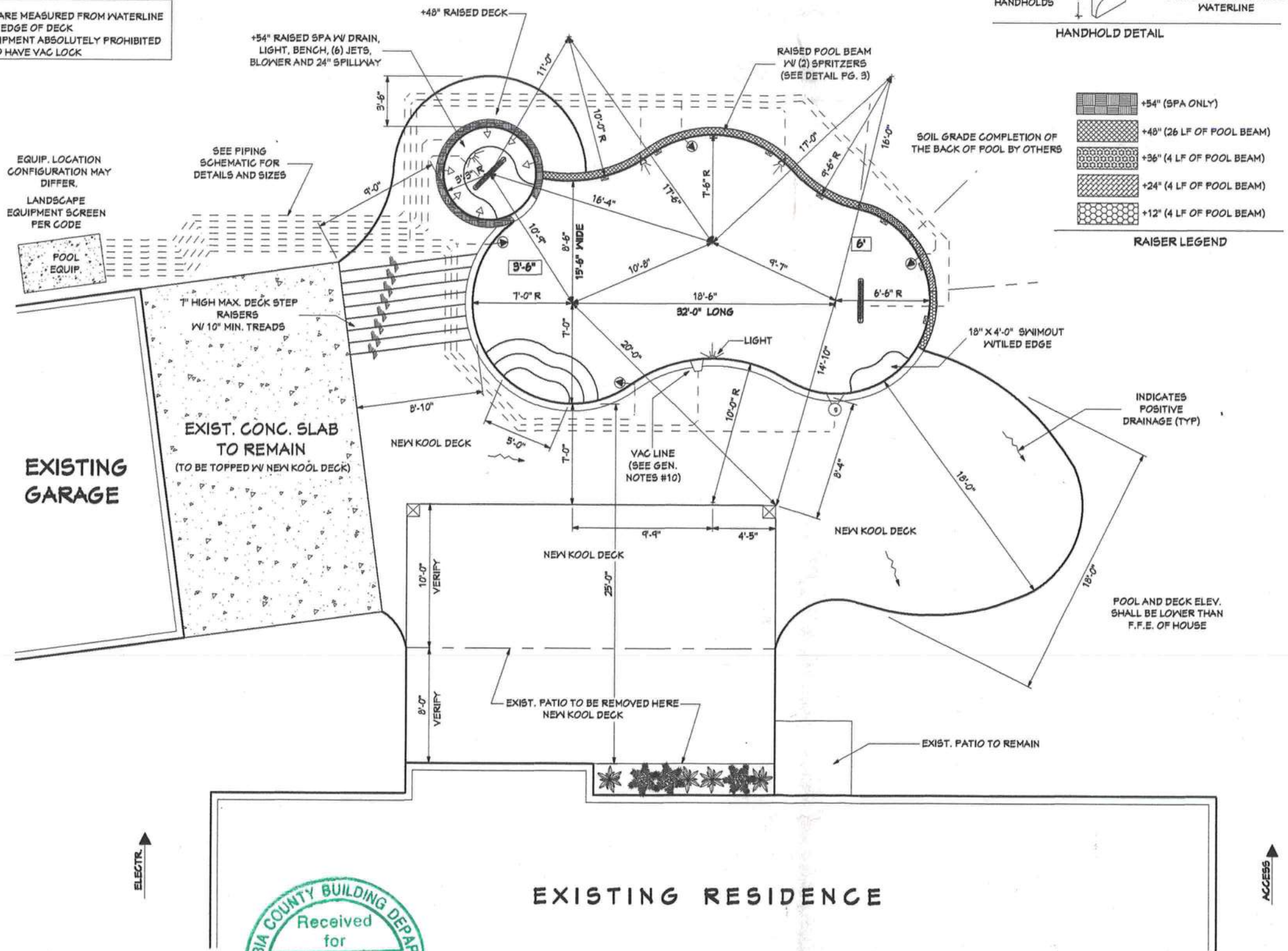
NOTE :
BASED OUR EXPERIENCE WOTHER POOL PROJETS IN THIS AREA THE BEARING CAPACITY IS 2000 PSF. IF OTHER CONDITIONS ARE FOUND AT EXCAVATION THE POOL CONTRACTOR MUST NOTIFY ENGINEER IMMEDIATELY.

NOTES :
-ALL DECKS ARE MEASURED FROM WATERLINE OF POOL TO EDGE OF DECK
-DIVING EQUIPMENT ABSOLUTELY PROHIBITED
-VAC LINE TO HAVE VAC LOCK



COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

POOL PLAN

SCALE 1/8" = 1'-0"

POOL SPECIFICATIONS

POOL SIZE:	32'-0" X 15'-6"	POOL DEPTH:	3'-6" TO 6'
POOL CAPACITY:	15,206 GAL.	TURNOVER RATE:	2.46 HR (12 HR MAX)
POOL S.F. :	428 SF	POOL PERIMETER:	84 LF

POOL EQUIPMENT

PUMP : HAYW. 1.5 HP SUPER II / 2 SPEED		MODEL : SP3010X152AZ - 103 GPM MAX.	
FILTER SIZE :	200 SF	MODEL :	CARTRIDGE
CHLORINATOR:	SALT SYS.	MODEL :	TBD
POOL RETURNS:	4	SKIMMER :	1
CLEANING LINE:	YES	LIGHT :	(1) 300W
HEATER TYPE :	HEAT PUMP	MODEL - SIZE :	RHEEM

WATER FEATURES

ROSETTE :	NONE	LION HEADS :	NONE
SHEER DESCENT :	NONE	DECK JETS :	NONE
SPRITZER :	(2)	JET ON S-O :	NONE
FEED LINE(S) :	NONE	BUBBLER :	NONE

FINISHING ITEMS

COPING:	OVERPOUR	HANDHOLD TYPE:	CERAMIC
TILE:	6"	TYPE OF NEW DECK :	KOOL DECK
SWIMOUT SIZE:	18" X 4'-0"	NEW DECK SF. :	1,213 SF
EXIT RAILINGS:	NONE	TOPPING SF. :	342 SF
AUTOMATION :	NONE	BENCH SIZE:	NONE
INTERIOR FINISH:	DIAMOND BRITE	DECK-O-DRAIN:	NONE

ADDITIONAL FEATURES

SCREEN ENCL :	NONE	FOOTER :	NONE

SPA SPECIFICATIONS

SPA SIZE:	6'-6" DIA.	DEPTH :	3'-0"
SPA PUMP :	NONE	SPA PERIMETER:	21 LF
JETS:	6	SPA S.F.:	33 SF
SPA CAPACITY:	740 GAL.	TURNOVER RATE:	0.12 HR
RAISED:	54"	LIGHT :	(1) 75W
GLASS BLOCKS:	NONE	BLOWER :	1.5 HP
SPILLWAY SIZE:	24"	ENTRY STEP :	NONE

NOTES

PERIMETER BARRIER : CHILD FENCE OR ALARMS BY OWNER PER SAFETY REQUIREMETS PAGE 2

FINAL DRAWING

APPROVED FOR LAYOUT, DIMENSIONS & EQUIPMENT. I / WE UNDERSTAND THAT ANY CHANGES WILL INVOLVE AN ADDITIONAL CHARGE OF $350.00 FOR EVERY CHANGE MADE. ALSO NO ENGINEERED PLANS WILL BE PROCESSED WITHOUT ORIGINAL SIGNED SALES DRAWING. NO EXCEPTIONS.

X DATE :

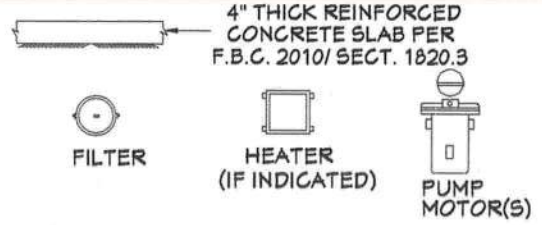
OUTBACK POOLS & WATERFALLS, INC.
931 NW SAVANNAH CIRC.
LAKE CITY, FL., 32055
Phon : (386) 755-9860-6677 / Fax : (386) 292-9295

RON & RENAE COLLINS
148 NW HORIZON
LAKE CITY, FL, 32055

WAYNE MARKHAM BENNETT LICENSE No 57216 STATE OF FLORIDA PROFESSIONAL ENGINEER

WAYNE MARKHAM BENNETT P.E. # 57216
265 S. FEDERAL HIGHWAY
DEERFIELD B.CH., FL., 33441
PHONE : (954) 818-3825
5-6-2012

ORDER#		B.D.D.#	122555-B
DATE:	5-6-12	SHEET	1 OF 4



NOTE: ALL ANCHOR BOLTS THRU BASE SHALL BE 3/16" TAPCON FOR ALL EQUIP. NEEDED; SEE MANUF. SPECS. FOR ANY ADDITIONAL DETAILS OR ANCHORING POINTS.

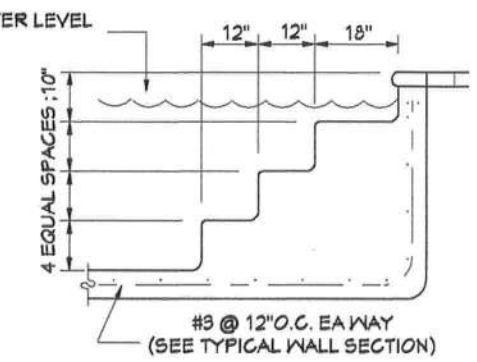
COMPLIANT W/ F.B.C. 2010/301.13

POOL EQUIPMENT ANCHORING

PER FBC 2010 R4101.17.1 THROUGH R4101.17.3 & SECT. 424.2.17.1.1 THROUGH 424.2.17.1.14 RESIDENTIAL SWIMMIMG POOL MUST MEET ONE OF THE BELOW SAFETY FEATURES :

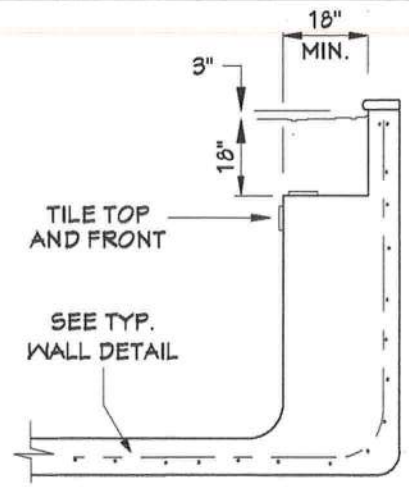
1. POOL MUST BE ISOLATED FROM ACCESS TO A HOME BY AN ENCLOSURE THAT MEETS THE POOL BARRIER REQ. OF S.515.29.
2. THE POOL MUST BE EQUIPPED W. AN APPROVED SAFETY POOL COVER.
3. ALL DOOR & WINDOWS PROVIDING DIRECT ACCESS FROM THE HOME TO THE POOL MUST BE EQUIPPED WITH AN EXIT ALARM THAT HAS A MIN. SOUND PRESSU. RATING OF 85dB A AT 10 FEET.
4. ALL DOOR & WINDOWS PROVIDING DIRECT ACCESS FROM THE HOME TO THE POOL MUST BE EQUIPPED WITH A SELF CLOSING SELF LATCHING DEVICE WITH A RELEASE MECHANISM PLACED NO LOWER THAN 54 IN. ABOVE THE FLOOR.

SAFETY REQUIREMENTS

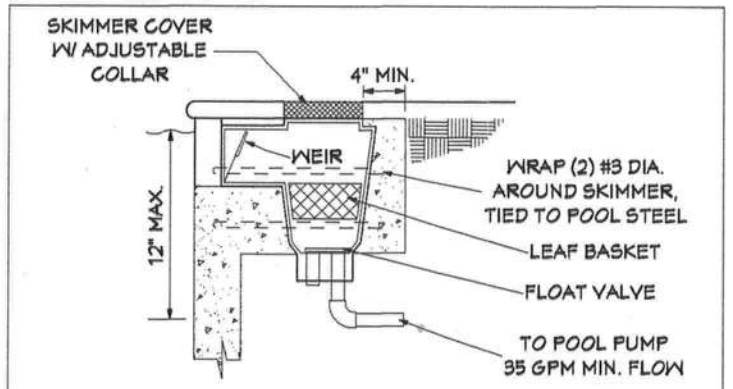


ENTRY STEP DETAIL

STEP STEEL NOT REQUIRED



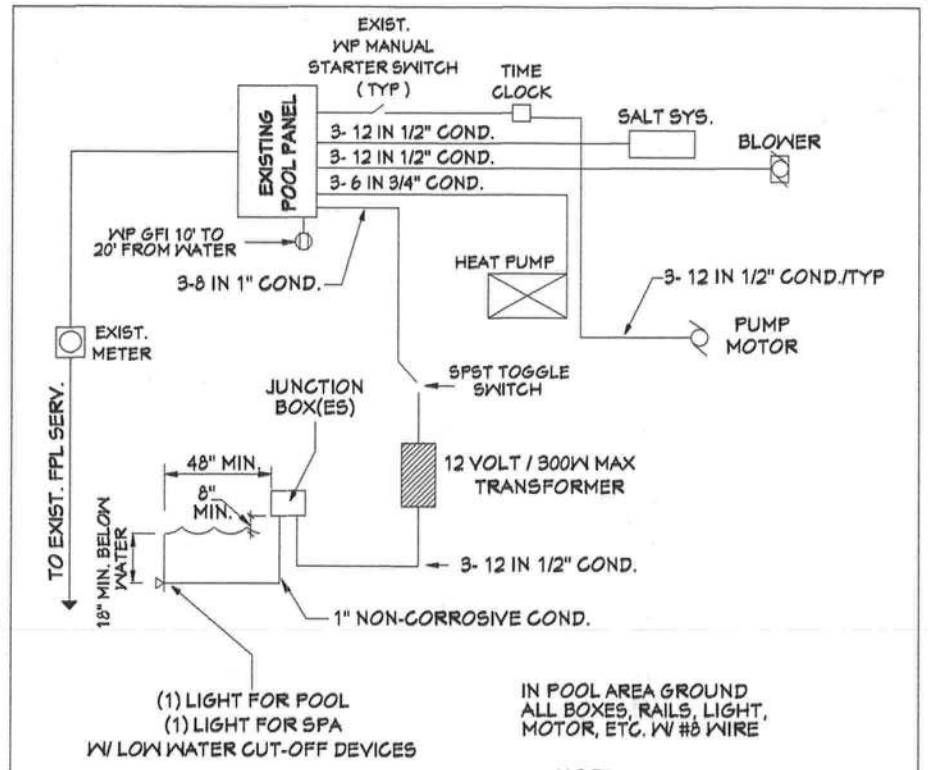
SWIMOUT & BENCH DETAIL



SKIMMERS SHALL BE INSTALLED ON THE BASIS OF ONE PER 800 SF OF SURFACE AREA OR FRACTION THEREOF.

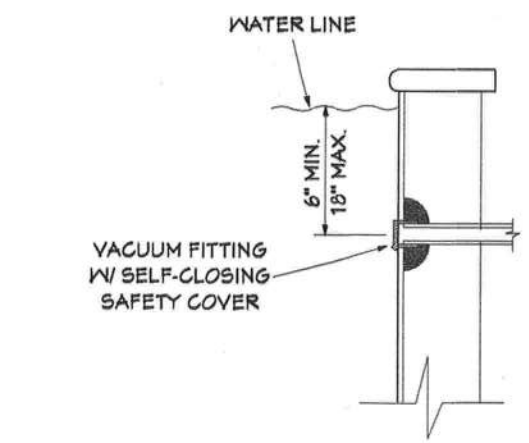
NO NEED SKIMMER ON THE POOLS W/ INFINITY EDGE POOLS

SKIMMER DETAIL



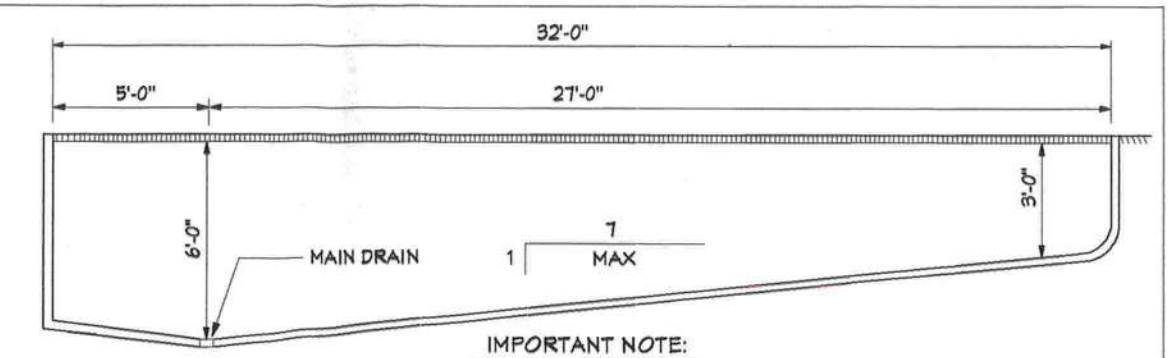
ELECTRICAL DIAGRAM

"SEE GEN. NOTES #40 FOR BONDING"
"SEE GEN. NOTES #42 FOR GFCI PROTEC."



PER FBC 424.2.6.6.5 & R4101.6.6.5 WHERE PROVIDED, THE VACUUM OR PRESSURE CLEANER FITTING(S) SHALL BE LOCATED IN AN ACCESSIBLE POSITION AT LEAST 6 INCHES AND NOT GREATER THAN 12 INCHES BELOW THE MINUMUM OPERATING WATER LEVEL, OR AS AN ATTAHMENT TO THE SKIMMER.ALL CLEANER SUCTION INLETS SHALL BE PROTECTED BY AN APPROVED, PERMANENTLY INSTALLED, SELF CLOSING FLAPPER ASSEMBLY.

VAC LINE DETAIL



IMPORTANT NOTE:
NO DIVING BOARD AND NO DIVING IS ALLOWED ON ANY POOL LESS THAN 8'-0" DEEP AND SPECIFICALLY DESIGNED FORDIVING.
THIS POOL IS NOT DESIGNED FOR DIVING.

LONGITUDINAL POOL SECTION

OUTBACK POOLS & WATERFALLS, INC.

CONTRACTOR :

CUSTOMER :

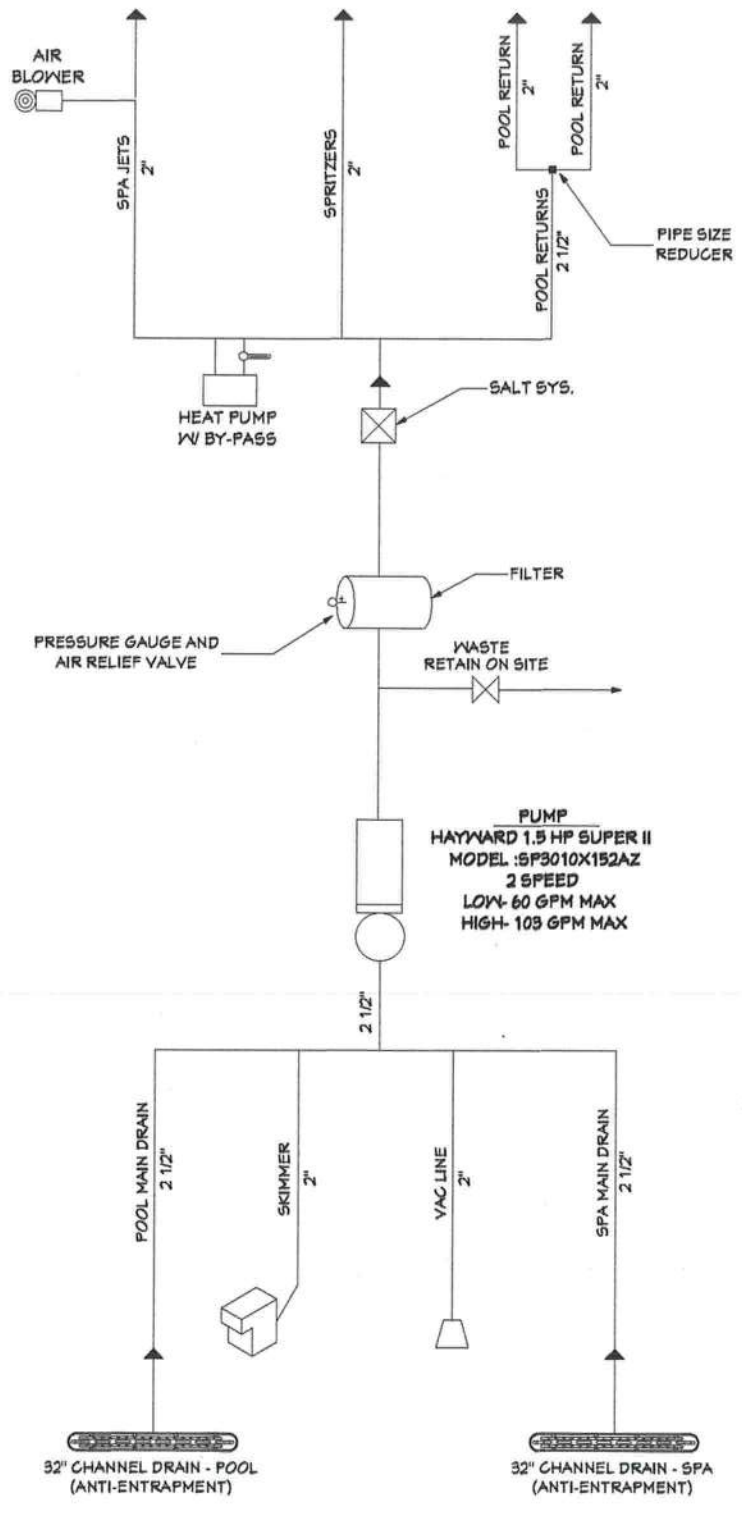
RON & RENAE COLLINS

DATE: 5-6-12

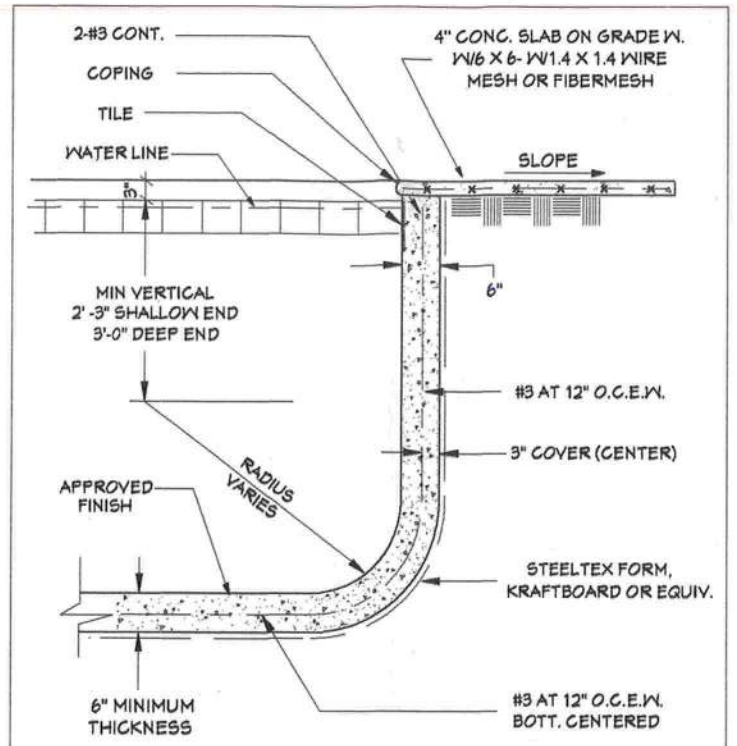
SHEET 2 OF 4

ORDER# B.D.D.# 122555-B

STATE OF
WAYNE MARKHAM BENNETT P.E. # 57216
265 S. FEDERAL HIGHWAY
DEERFIELD BCH., FL. 33441
PHONE : (954) 818-3825
5-6-2012

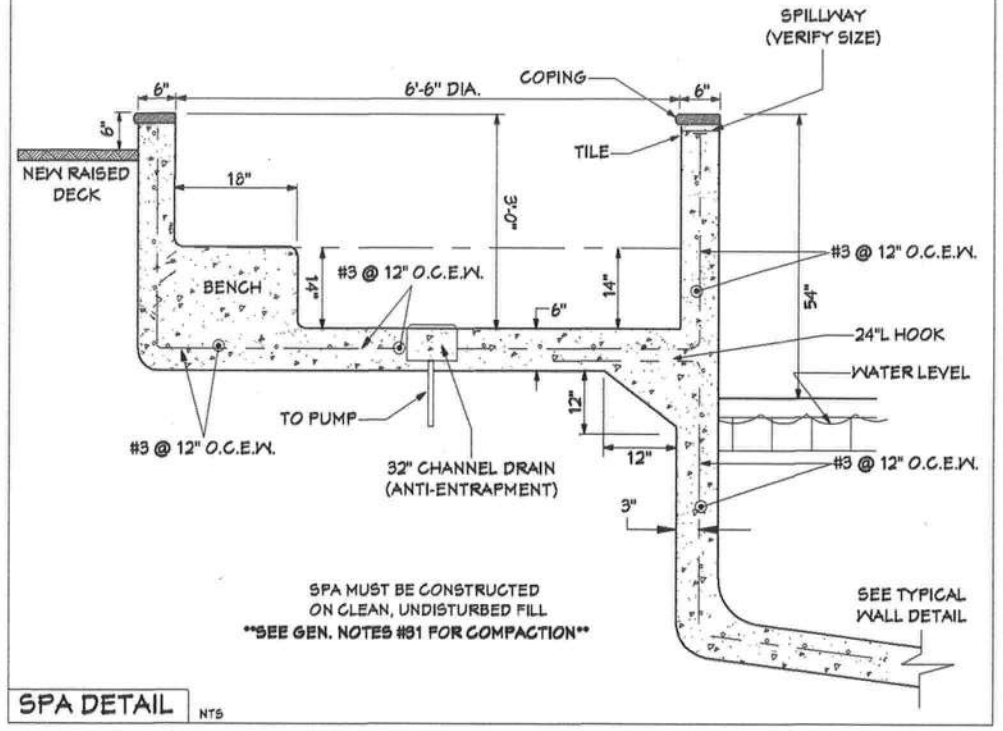


PIPING SCHEMATIC

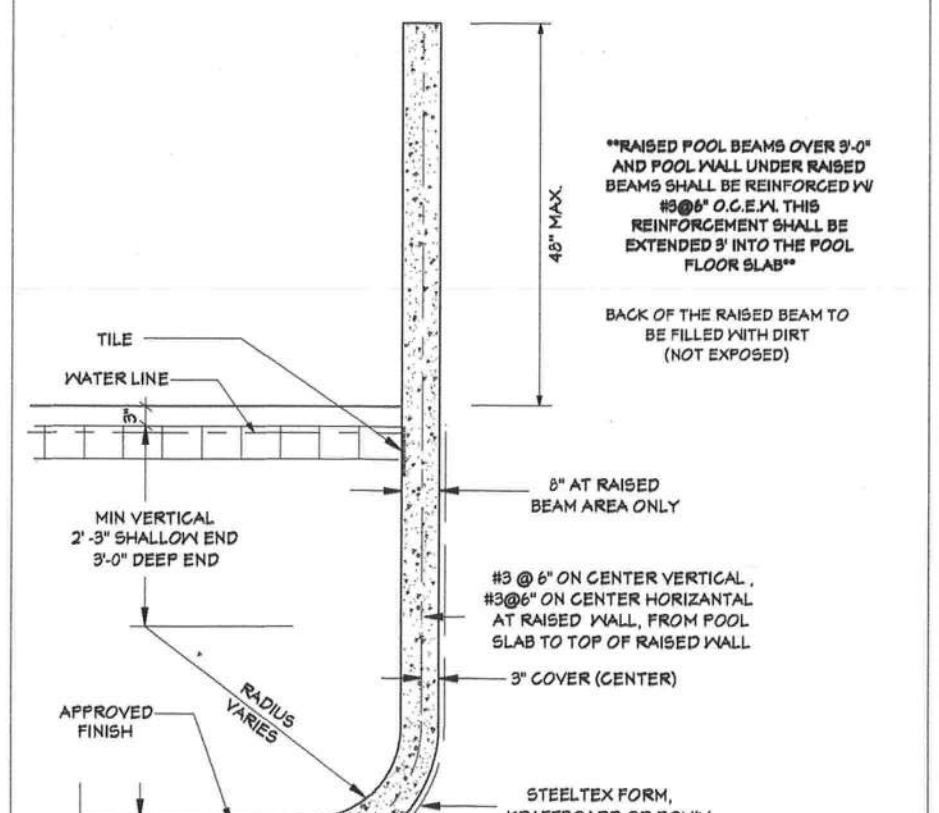


TYPICAL WALL SECTION NTS

FOR THE DEPTHS UP TO 6'



SPA DETAIL NTS



AT RAISED BEAM AREA ONLY

TYPICAL WALL SECTION NTS

FOR THE DEPTHS UP TO 6'

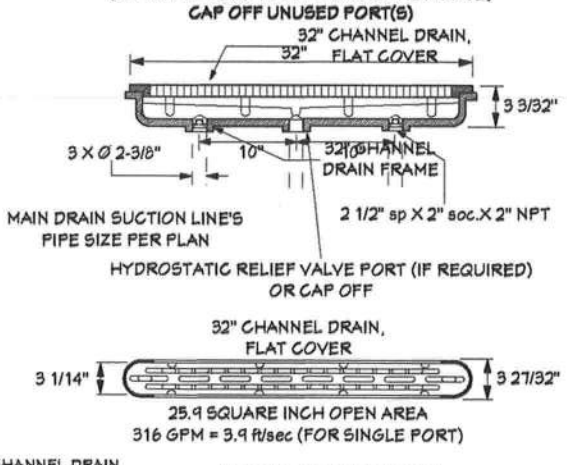
OPTION #1

** AQUASTAR: 32CDFL 32" CHANNEL DRAIN COVER AND SUMP**
316 GPM-FLOOR/208 GPM-WALL/ SINGLE PORT /25.9 SQ. IN. OPEN AREA

OPTION #2

** WATERWAY : 640-13xx-V 32" CHANNEL DRAIN COVER AND SUMP**
288 GPM-FLOOR/232 GPM-WALL / SINGLE PORT /37.1 SQ. IN. OPEN AREA

1, 2 OR 3 PIPE CONNECTIONS ARE APPROVED AT ANY PORT (DO NOT EXCEED MAX. FLOW-SUCTION RATE) CAP OFF UNUSED PORT(S)



32" CHANNEL DRAIN

MAIN DRAIN DETAIL

SEE GEN. NOTES #7, 8 PG. 4
PER F.B.C. 2010/ SECT. 424.2.6.6. & ANSI/APSP-7

WAYNE MARKHAM BENNETT * LICENSE 51678 * STATE OF FLORIDA * PROFESSIONAL ENGINEER

WAYNE MARKHAM BENNETT P.E. # 51216
265 S. FEDERAL HIGHWAY
DEERFIELD BCH., FL. 33441
PHONE: (954) 818-3825
5-8-2012

OUTBACK POOLS & WATERFALLS, INC.

CONTRACTOR :

CUSTOMER : RON & RENAE COLLINS

ORDER#	B.D.D.#	SHEET	DATE:
	122555-B	3 OF 4	5-6-12

GENERAL NOTES

1- CODE REQUIREMENTS :
PRIVATE SWIMMING POOL AND SPAS MUST COMPLY WITH CHAPTER 4, SECTION 424 & CHAPTER 41, SECTION R4101 FLORIDA BUILDING CODE 2010

2- MECHANICAL REQUIREMENTS :
ALL PIPING EQUIPMENT AND MATERIALS USED IN THE PLUMBING SYSTEM OF SWIMMING POOLS AND SPAS THAT ARE BUILT IN PLACE SHALL CONFORM TO THE FLORIDA BUILDING CODE 2010, PLUMBING 424.2.3 & R4101.3 . ALL PIPING MATERIALS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION STANDARDS.

3- COMPLIANCE :
ALL MATERIALS, PIPING, VALVES, EQUIPMENT OR APPLIANCES ENTERING INTO THE CONSTRUCTION OF SWIMMING POOLS-SPAS OR PORTIONS THEREOF SHALL BE OF A TYPE COMPLYING WITH THE CODE OR OF A TYPE RECOMMENDED AND APPROVED BY A NATIONALLY RECOGNIZED TESTING AGENCY OR CONFORMING TO OTHER RECOGNIZED STANDARDS ACCEPTABLE TO ADMINISTRATIVE AUTHORITY.

4- ENGINEERING DESIGN :
DESIGN, CONSTRUCTION AND WORKMANSHIP SHALL BE IN COFORMITY WITH ANSI/NSPI 3, 4, 5 AND 6 2003, PUBLISHED BY THE INTERNATIONAL AQUATICS FOUNDATION OR OTHER ACCEPTED ENGINEERING PRACTICES.

5- TESTING AND CERTIFICATION :
ALL POOL AND SPA SUCTION INLETS SHALL BE PROVIDED WITH A COVER THAT HAS BEEN TESTED AND ACCEPTED BY A RECOGNIZED TESTING FACILITY AND COMPLY WITH ANSI/ASME A112.19.8M " SUCTION FITTINGS FOR USE IN SWIMMING POOLS, SPAS, HOT TUBS AND WHIRPOOL BATHTUB APPLIANCES". EXCEPTION : SURFACE SKIMMERS.

6- SAFETY NOTE :
DO NOT USE OR OPERATE POOL OR SPA IF THE SUCTION INLET FITTING IS BROKEN, MISSING OR LOOSE.

7-WATER VELOCITY PER ANSI/APSP-7 2006 #4.4
WATER VELOCITY IN FIELD FABRICATED PIPING IS BASED ON THE MAX. SYSTEM FLOW RATE. MAX. WATER VELOCITY IN BRANCH PIPING (THE PIPING BETWEEN THE DRAINS) SHALL BE LIMITED TO 6 FEET PER SECOND /FPS WHEN ONE OF A PAIR IS BLOCKED. IN NORMAL OPERATION THEN, THE BRANCH SUCTION PIPING VELOCITY IS 3 FEET PER SECOND /FPS. ALL OTHER SUCTION PIPING VELOCITIES SHALL BE 6 FPS FOR PUBLIC POOLS OR 8 FPS FOR RESIDENTIAL POOLS.

8-MAX. SYSTEM FLOW RATE PER ANSI/APSP-7 2006 #4.4.1
THE MAXIMUM SYSTEM FLOW RATE SHALL BE DETERMINED BY ONE OF THE FOLLOWING:
- TDH CALCULATION FOR THE CIRCULATION SYSTEM OF EACH PUMP, OR
- SIMPLIFIED TDH CALCULATION, OR
- THE MAX. FLOW CAPACITY (DETERMINE FROM PUMP FLOW CURVE) OF THE NEW OR REPLACEMENT PUMP, WHICH SHALL BE LIMITED BY THE CRITERIA OF ANSI/APSP-7 #4.4

IMPORTANT NOTE : IF THE MAX. PUMP FLOW RATE GREATER THAN DRAIN FLOW RATE OR 8 FPS SUCTION FLOW RATE OR 10 FPS DISCHARGE FLOW RATE, THEN THE "MAX. FLOW FROM THE PUMP CURVE" OPTION HAS FAILED.
IF SO, THE TOTAL DYNAMIC HEAD TDH CALCULATION SHALL BE REQUIRED TO DETERMINE IF THE SYSTEM IS ACCEPTABLE. USING TDH, DETERMINE NEW MAX. FLOW RATE FROM PUMP CURVE, IF IT IS GREATER THAN DRAIN FLOW RATE OR 8 FPS SUCTION FLOW RATE OR 10 FPS DISCHARGE FLOW RATE, THE SYSTEM IS NOT ACCEPTABLE.
- IF A VARIABLE SPEED PUMP IS USED, USE THE MAX. PUMP FLOW IN CALCULATIONS
- FOR SIDE DRAINS, USE APPROPRIATE SIDE WALL DRAIN FLOW AS PUBLISHED BY MANUFACTURER
- IN-FLOOR SUCTION OUTLET COVERIGRATE MUST CONFIRM TO MOST RECENT EDITION OF ASME/ANSI A112.19.8 AND BE EMBOSSED WITH THAT EDITION
- PUMP, FILTER & HEATER MAKE AND MODEL CANNOT CHANGED AND EQUIPMET LOCATION CANNOT BE MOVED CLOSER TO POOL WITHOUT SUBMITTING A REVISED PLAN AND TDH CALCULATION FOR APPROVAL
- MIN. SYSTEM FLOW BASED ON MI. FLOW PER SKIMMER OF 35 GPM
- SYSTEM FLOW RATE MUST NOT EXCEED APPROVED COVER FLOW RATES
- CENTER TO CENTER DISTANCE BETWEEN THE SUCTION PIPE OUTLETS SHALL BE 36 INCH MIN.
- CHANNEL TYPE (WITH 2 OR 3 OUTLETS IN ONE PORT) SHALL BE AT LEAST 3" WIDE BY 31" LONG

9- PUMP :
PER FBC 2010 SECTION 424.2.7.1 STRAINER. POOL CIRCULATING PUMPS SHALL BE EQUIPPED ON THE INLET SIDE WITH AN APPROVED TYPE HAIR AND LINT STRAINER WHEN USED WITH A PRESSURE FILTER. PER 424.2.7.2 INSTALLATION TO BE COMPLETED IN ACCORDANCE MANUFS RECOMMEDATIONS. PER 424.2.7.3 CAPACITY ; PUMPS SHALL HAVE DESIGN CAPACITY AT THE FOLLOWING HEADS; 1) PRESSURE DIATOMACEOUS EARTH-A LEAST 60 FEET, 2) VACUUM D.E. 20 INCH VACUUM ON THE SUCTION SIDE AND 40 FEET TOTAL HEAD , 3) RAPID SAND - AT LEAST 45 FEET, 4)HIGH RATE SAND- AT LEAST 60 FEET. PER 424.27.4 PUMP IMPELLERS, SHAFT, WEAR RINGS AND OTHER WORKING PARTS SHALL BE CORRISION RESISTANT MATERIALS.

10- CLEANER FITTINGS :
PER ANSI/NSPI-5 9.12.10, THE VACUUM OR PRESSURE CLEANER FITTING(S) SHALL BE LOCATED IN AN ACCESSIBLE POSITION AT LEAST 6 INCHES AND NOT GREATER THAN 18 INCHES BELOW THE MINUMUM OPERATING WATER LEVEL, OR AS AN ATTACHMENT TO THE SKIMMER.ALL CLEANER SUCTION INLETS SHALL BE PROTECTED BY AN APPROVED, PERMANENTLY INSTALLED, SELF CLOSING FLAPPER ASSEMBLY.

11- VALVE :
PER FBC 2010 SECTION 424.2.8.1 & R4101.8.1 VALVES SHALL BE MADE OF MATERIALS THAT ARE APPROVED IN THE FLORIDA BUILDING CODE, PLUMBING. VALVES LOCATED UNDER CONCRETE SLABS SHALL BE SET IN A PIT HAVING A LEAST DIMENSION OF FIVE PIPE DIAMETERS, MINIMUM 10 INCHES, FITTED WITH A SUITABLE COVER

12- WASTE WATER DISPOSAL :
PER FBC 424.2.10 & R4101.10 DIRECT OR INDIRECT CONNECTIONS CANNOT BE MADE TO EXISTING FACILITIES UNLESS APPROVED BY THE ADMINISTRATIVE AUTHORITY.

13- PIPING :
PIPING SHALL BE SCH. 40 BEARING NSF APPROVAL PER FBC 2010, R4101. PIPING CAN BE (IF NEEDED) ENCASED IN THE CONCRETE OF THE POOL SHELL.

14- TESTS :
ALL POOL PIPING SHALL BE INSPECTED AND APPROVED BEFORE COVER OR CONCEALMENT. IT SHALL BE TESTED ANDPROVED TIGHT UNDER A STATIC WATER OR AIR PRESSURE TEST OF NOT LESS THAN 35 PSI FOR 15 MINUTES. PER MANUFACTURER'S RECOMMENDATIONS, NO AIR TEST SHALL BE APPROVED FOR PVC PIPE AND FITTINGS. SECTION 424.2.12.1 & R4101.12.1 & R4101.12.2 PRESSURE TESTS.

15- WATER HEATING EQUIPMENT :
SWIMMING POOL WATER HEATING EQUIPMENT SHALL CONFORM TO THE DESIGN CONSTRUCTION AND INSTALLATION REQUIREMENTS IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES AND SHALL BEAR THE LABEL OF A RECOGNIZEDTESTING AGENCY, AND SHALL INCLUDE A CONSIDERATION OF COMBUSTION AIR, VENTING AND GAS SUPPLY REQUIREMENTS FOR WATER HEATERS SEC. 424.2.14.1 & R4101.14.1. IT MUST CONTAIN A THERMOSTATIC OR HIGH PRESSURE CONTROL SWITCH SO THE POOL WATER DOES NOT EXCEED 104 DEGREES F. SEC. 424.2.14.4 & R4101.14.4 WATER HEATING EQUIPMENT SHALL BE INSTALLED WITH FLANGES OR UNION CONNECTIONS ADJACENT TO THE HEATER. WATER HEATING EQUIPMENT-SWIMMING POOL WATER HEATING EQUIPMENT SHALL COMPLY WITH FBC 2010 SECTION 412.1 ALL HEATERS MUST HAVE AN INTERNAL CHECK VALE. PER FBC 13-612.1.ABC.2.3.2 THE POOL AND SPA SHALL BE PROVIDED WITH A COVER TO REDUCE HEAT LOSS (IF REQUIRED BY THE CITY)

16- GAS PIPING :
GAS PIPING SHALL COMPLY WITH FBC 2010, SECTION 424.2.15 & R4101.15 FUEL GAS.

17- ELECTRICAL :
POOL LOCATION AND ELECTRICAL WIRING AND EQUIPMENT SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE 2008, SPECIFICALLY SECTION 680.

18- LADDERS AND STEPS :
PER FBC 2010, SECTION 424.2.18 & R4101.18 ALL POOLS SHALL BE PROVIDED WITH A LADDER OR STEPS INTHE SHALLOW END WHERE WATER EXCEEDS 24 INCHES. WHERE WATER DEPTH EXCEEDS 5 FEET, THERE SHALL BE LADDERS, STAIRS OR UNDERWATER BENCHES/SWIMOUTS IN THE DEEP END.

19- FILTERS :
PER FBC 2010, SECTION 424.2.20 & R4101.20 THE ENTIRE DESIGN OF MATCHED COMPONENTS SHALL HAVE SUFFICENT CAPACITY TO PROVIDE A COMPLETE TURNOVER OF POOL WATER IN 12 HOURS OR LESS.

20- POOL FITTINGS :
PER FBC 2010, SECTION 424.2.21 & R4101.21 POOL FITTINGS SHALL BE OF AN APPROVED TYPE AND DESIGN AS TO BE APPROPRIATE FOR THE SPECIFIC APPLICATION. PER FBC 2010, SECTION 424.2.13.2 JOINTS AND C CONNECTIONS, FBC PLUMBING SEC. 605.21, PURPLE PRIMER REQUIRED ON PVC PIPING

21- SKIMMERS :
PER FBC 2010, SECTION 424.2.21.2 & R4101.21.2 SKIMMERS SHALL BE INSTALLED ON THE BASIS OF ONE PER 800 SF OF SURFACE AREA OR FRACTION THEREOF.

22- HYDROSTATIC RELIEF DEVICE :
PER FBC 2010, SECTION 424.2.21.4 & R4101.21.4 IN AREAS OF ANTICIPATED WATER TABLE, AN APPROVED HYDROSTATIC RELIEF DEVICE SHALL BE INSTALLED. EXCEPTION IS PLASTIC LINER POOLS.

23- CONCRETE / STEEL :
CONCRETE IS TO BE A MIX DESIGNED IN ACCORDENCE WITH ASTM C-94 BY A RECOGNIZED TESTING LABORATORY TO ACHIEVE A STRENGTH OF 3000 PSI, AT 28 DAYS (UNLESS OTHERWISE NOTED) WITH A PLASTIC AND WORKABLE MIX. PNEUMATICALLY APPLIED CONCRETE AND/OR SHOTCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304.2R-04 AND ACI 506.2-04, RESPECTIVELY. ALL OTHER CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304R-04. A CERTIFICATE OF MANUFACTURER'S MIX AND STRENGTH IS TO BE PROVIDED. NO WATER IS TO BE ADDED AFTER TRUCK LEAVES PLANT WITHOUT APPROVAL OF ENGINEER. PLANT CONTROL IS REQUIRED. MAXIMUM MIX TIME AT POINT OF DEPOSIT IS 90 MINUTES. CONCRETE WORK SHALL BE AS PER REQUIREMENTS AND RECOMMENDATIONS OF ACI 301-04. REINFORCING, DEFORMED STEEL BARS SHALL BE A615 GRADE 40 (UNLESS OTHERWISE NOTED), FREE FROM OIL, LOOSE SCALE AND LOOSE RUST. REINFORCING, DEFORMED STEEL BARS SHALL BE BENT, LAPPED, PLACED, SUPPORTED AND FASTENED ACCORDING TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES (ACI 315-04) AND THE BUILDING CODE REQUIREMENTS FOR REINFORCING CONCRETE (ACI 318-04). IN CASE OF CONFLICT, THE MORE CONSERVATIVE VALUE(S) SHALL BE USED.

24- SOIL STATEMENT :
IN ACCORDANCE WITH FBC SECTION 1818, HVHZ BEARING CAPACITY OF SOIL ; BASED UPON RATIONAL ANALYSIS AND KNOWN VALUES IN THE VICINITY, THE IN-PLACE BEARING CAPACITY OF THE SOIL BENEATH THE POOL AND RELATED STRUCTURES SHOWN WITHIN THESE PLANS IS 2000 PSF AFTER EXCAVATION AND COMPACTION IN ACCORDANCE WITH CURRENT EDITION OF FBC. SHOULD ANY MUCK, MARL OR OTHER ORGANIC SOILS BE DISCOVERED ON EXCAVATION, THEY SHOULD BE REMOVED IN THEIR ENTIRETY. ALL CONSTRUCTION SHALL STOP AND THE ENGINEER OF RECORD SHALL BE CONTACTED TO CONDUCT AN INSPECTION, STRUCTURAL ELEMENTS ARE DESIGNED WITH A REQUIRED BEARING CAPACITY OF 2000 PSF, UNLESS OTHERWISE SPECIFIED.

25- POOL STAKING :
THIS DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR POOL CONSTRUCTION IN EASEMENT OR REQUIRED SETBACKS AREAS. PLOT PLANS NOT PREPARED FROM LEGAL SURVEYS OF THE EXISTING LOT AND RESIDENCE ARE SO INDICATED. THE POOL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND ESTABLISH LOT LINES & LOCATION OF UTILITIES AT THE SITE AND CONTACT THE H.C.E. IF DIFFERENT THAN INDICATED ON PLAN. MINIMUM CLEARENCE DIMENSIONS SHALL BE HELD AS REQUIRED BY THE LOCAL REGULATORY AGENCY.

26- EXISTING STRUCTURES :
THE POOL CONTRACTOR SHALL ALWAYS TAKE ALL PRECAUTIONS TO PROTECT EXISTING STRUCTURES FROM FAILURE BY SHEETING AND/OR SHORING OR OTHER METHODS. THE DESIGN ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE SAFETY OF EXISTING STRUCTURES.
IN CASE OF FOOTINGS UNDERMINING, CONTRACTOR SHALL POUR CONCRETE BETWEEN POOL AND FOOTING. TOP OF CONCRETE SHALL BE BOTTOM OF FOOTING, WIDTH OF POURED CONCRETE SHALL BE FOOTING WIDTH AT A MINUMUM

27- WATER SERVICE :
PER FBC 2010 SECTION 424.2.9 & R4101.9 UNLESS AN APPROVED TYPE OF FILLING SYSTEM IS INSTALLED, ANY WATER SUPPLY WHICH IN THE JUDGMENT OF THE ADMINISTRATIVE AUTHORITY MAY BE USED TO FILL THE POOL, SHALL BE EQUIPPED WITH BACKFLOW PROTECTION. NO OVER THE RIM FILL SPOUT SHALL BE ACCEPTED UNLESS LOCATED UNDER A DIVING BOARD OR PROPERLY GUARDED.

28- CONCRETE SLABS :
ALL POOL EQUIPMENT SLABS SHALL COMPLY WITH SECTION 1820.3 OF FBC 2010

29- HANDHOLD :
ANSI-NSPI-5 ARTICLE XV SECTION 15.13. A SECURED ROPE OR CERAMIC HANDHOLDS MUST BE PLACED AT OR NO MORE THAN 12" ABOVE THE NORMAL WATERLINE OF THE POOL

30- POWER LINE :
OVERHEAD ELECTRIC LINES MUST BE LOCATED 10 FEET AND UNDERGROUND ELECTRIC LINES MUST BE LOCATED 5 FEET FROM POOL WATER EDGE.

31- BACKFILL & COMPACTION
BACKFILL CONSTRUCTION AREAS TO PROPER ELEVATION, IF NEEDED USING CLEAN GRANULAR MATERIAL FREE OF ORGANICS AND OTHER DELETERIOUS MATERIALS AND PLACED IN LIFTS NOT TO EXCEED 12 INCHES IN THICKNESS AND COMPACTED TO 95% OF THE ASTM D-1557 MODIFIED PROCTOR METHOD. BACKFILLING SHALL COMMENCE ONLY FOLLOWING REMOVAL FROM EXCAVATION OF ALL FORMS, WOOD, DEBRIS, AND OTHER DELETERIOUS MATERIALS. COMPACTION SHALL BE WITH EQUIPMENT SUITED TO SOIL BEING COMPACTED. MOISTEN OR AERATE MATERIAL AS NECESSARY TO PROVIDE MOISTURE CONTENT COMPACT EACH LAYER TO NOT LESS THAN PERCENTAGE OF THAT WHICH WILL READILY FACILITATE OBTAINING SPECIFIED COMPACTION WITH EQUIPMENT USED. ENSURE THAT THE COMPACTION OF PREVIOUSLY PREPARED FILL AREAS HAS BEEN MAINTAINED PRIOR TO PLACING NEW LAYERS. AFTER INSTALLATION OF ANY PLUMBING AND ELECTRICAL PIPING DISTURBED AREAS SHALL BE RECOMPACTED.

32- WARNING :
TO EMPTY POOL AFTER CONSTRUCTION, FOR REPAIRS OR ANY OTHER REASON, THE HYDROSTATIC UPLIFT PRESSURES BENEATH THE POOL MUST BE ELIMINATED TO PREVENT THE POOL FROM FLOATING UPWARD. THE OWNER MUST CONSULT A POOL CONTRACTOR OR POOL REPAIR CONTRACTOR EXPERIENCED IN ELIMINATING UPLIFT PRESSURES.

33- NOTE 1 :
THIS PLAN IS NOT TRANSFERABLE FROM ONE CONTRACTOR TO ANOTHER

34- NOTE 2 :
UNLESS OTHERWISE SPECIFIED, ALL DETAILS SHOWN ARE NOT TO SCALE.

35- NOTE 3 :
POOL WALL SHALL BE REINFORCED WITH #3@8" O.C.E.W. WHERE LESS THAN 5 FEET FROM ANY EXISTING STRUCTURE OR PATIO (SEE SHEETING & SHORING DETAIL)

36- NOTE 4 :
POOL AND DECK ELEVATION SHALL BE LOWER THAN FINISH FLOOR ELEVATION OF THE HOUSE

37- NOTE 5 :
THERE IS ALWAYS THE POSSIBILITY THAT CONDITIONS IN THE FIELD MAY BE DIFFERENT FROM THOSE INDICATED IN AN ENGINEERING PERMIT DRAWINGS; THEREFORE, IF DIFFERENT CONDITIONS ARE ENCOUNTERED BEFORE OR DURING CONSTRUCTION, THE ENGINEER OF RECORD SHALL BE NOTIFIED TO REVIEW THE FINDINGS AND MAKE RECOMMENDATIONS AS NEEDED.

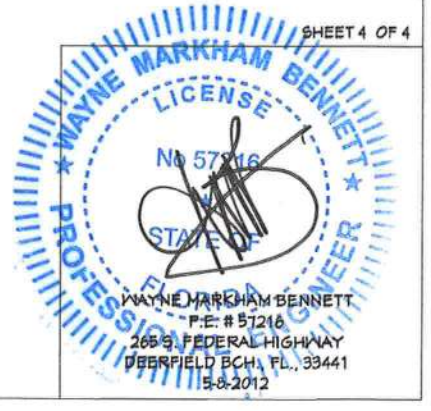
38- NOTE 6 :
STRUCTURAL ENGINEER MUST CERTIFY OR DESIGN REPLACEMENT ANCHOR AND DEADMAN SYSTEM FOR SEAWALL WITH IN 15 FEET OF POOL.SEAWALL ANCHOR SYSTEM INSTALLATION MUST BE COMPLETE PRIOR TO START OF POOL CONSTRUCTION.

39- NOTE 7 :
NO DIVING BOARD AND NO DIVING IS ALLOW ON ANY POOL LESS THAN 8 FEET DEEP AND SPECIFIALLY DESIGN FOR DIVING

40- BONDING
CONTINUOUS SINGLE #8 AWG BARE COPPER WIRE SHALL BE BURIED TO A MIN. 4" TO 6" BELOW SUBGRADE, 18" TO 24" FROM INSIDE THE WALL OF SWIMMING POOL- SPA AROUND THE SWIMMING POOL-SPA PERIMETER, AND SHALL BE CONNECTED TO THE POOL STEEL REINFORCEMENT AT A MIN. 4 DIFFERENT LOCATIONS, EQUALLY SPACED.

41- NOTE 8 :
IT IS THE CONTRACTOR RESPONSIBILITY TO PROVIDE THE ENGINEER WITH AN ACCURATE SURVEY AND DRAWINGS THAT REPRESENTS THE EXISTING FIELD CONDITIONS, I.E. ADDITIONS, TREES, AC PADS, WALKWAYS, ETC.

42- GFCI PROTECTION
GFCI PROTECTION ; OUTLETS SUPPLYING POOL PUMP MOTORS FROM BRANCH CIRCUITS WITH SHORT-CIRCUIT AND GROUND -FAULT PROTECTION RATED 15 OR 20 AMPERES, 125 VOLT OR 240 VOLT, SINGLE PHASE, WHETHER BY RECEPTACLE OR DIRECT CONNECTION SHALL BE PROVIDED WITH GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER NEC 2008 680.22 (B)



WAYNE MARKHAM BENNETT
P.E. # 57216
265 S. FEDERAL HIGHWAY
DEERFIELD BCH., FL., 33441
5-8-2012