

REVISION SCHEDULE		
REV.	DATE	REVISION DESCRIPTION

1	1/24/18	UPDATED TO 2017 CODE
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PEELER POOLS

CERTIFIED POOL PLANS

APPLICABLE CODES:
FLORIDA BUILDING CODE 6TH EDITION (2017)- BUILDING
NATIONAL ELECTRIC CODE (NFPA 70)
FLORIDA BUILDING CODE 6TH EDITION (2017)- PLUMBING
FLORIDA BUILDING CODE 6TH EDITION (2017)- MECHANICAL
FLORIDA FIRE PROTECTION CODE (INCLUDES LIFE SAFETY 101)

GENERAL DESIGN REQUIREMENTS:

- DESIGN DIMENSIONS SHALL COMPLY WITH SPECIFICATIONS INANSINSP1 5 RESIDENTIAL IN-GROUND POOLS BASED ON THE POOL TYPE AND NSPI 3 PERMANENTLY INSTALLED RESIDENTIAL SPAS.
- SEE ANSINSP1 5 FOR DIVING WATER ENVELOPES.
- SLIDES SHALL MEET MANUFACTURERS INSTALLATION REQUIREMENTS
- ENTRY/EXIT: SHALL COMPLY WITH ANSINSP1 5 AND NS31 LADDERS, UNDERWATER SEATS AND SWM OUTS (MAX. 20" BELOW WATER)
- CIRCULATION SYSTEMS, COMPONENTS & EQUIPMENT SHALL COMPLY W/ NSF 50
- THE MAXIMUM TURNOVER RATE IS 12 HOURS.
- FILTERS SHALL HAVE AN AIR RELIEF AND PRESSURE GAUGE
- PUMPS 3 HP AND LESS SHALL MEET ANSI/UL 1081, CORROSION RESISTANT STRAINER AND MEET THE RQUIRED FLOW.
- SURFACE SKIMMERS SHALL MEET NSF 50 AND THERE SHALL BE ONE FOR EVERY 800 SQUARE FEET OF SURFACE AREA
- RETURN INLETS SHALL BE A MINIMUM OF ONE FOR EVERY 600 SQ. FT.
- HEATERS SHALL MEET ANSI-Z21.56 OR UL 1261 OR UL559
- DISINFECTANT EQUIPMEENT SHALL COMPLY WITH NSF 50
- PRESSURE TEST PIPING AT 35 PSI FOR 15 MINUTES OR MEET LOCAL CODE IF GREATER
- POOL SHAPE IS FREE FORM, ABOVE SHAPE AND DIMENSION ARE APPROXIMATE
- ASSUMED SOIL BEARING = 1.5 KSF
- INSTALL CONTROL JOINTS @ 20'-0" O.C. IN POOL DECKING.
- CONCRETE STAIRS ARE 12" TREAD WITH AND 10" MAX. HEIGHT
- LIGHTING IF INSTALLED WILL BE FIBER OPTIC OR LED
- ALL EQUIPOTENTIAL BONDING SHALL BE INSTALLED PER 2008 NEC 680.26
- SLAB AND FOOTING : 2500 PSI CONCRETE, GRADE STEEL REBAR

SPECIAL SPA REQUIREMENTS:

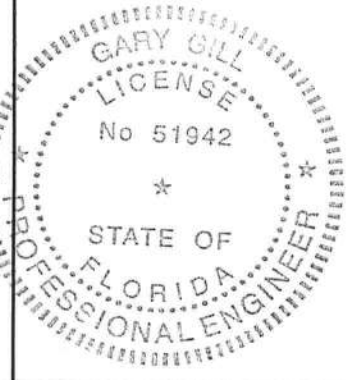
- MAXIMUM WATER DEPTH 4', MAXIMUM SEAT DEPTH 28", MAXIMUM FLOOR SLOPE 1:12
 - STEPS: MINIMUM TREAD = 10"x12", MINIMUM RISER=7" MAXIMUM RISER= 12" EXCEPT THE BOTTOM STEP MAY BE 14" IF IT IS THE SEAT. INTERMEDIATE TREADS AND RISERS TO BE UNIFORM
 - SLIDES SHALL MEET MANUFACTURERS INSTALLATION REQUIREMENTS.
 - IF THE SPA IS OPERATED INTERMITTENTLY IT SHALL HAVE A ONE HOUR TURNOVER
 - MAXIMUM TEMPERATURE IS 104° FARENHEIT
 - MEET ANSINSP1 ARTICLE XVII SAFETY INSTRUCTIONS/SAFETY SIGN
 - PRESSURE TEST PIPING AT 35 PSI FOR 15 MINUTES OR MEET LOCAL CODE IF GREATER
- ### ELECTRICAL REQUIREMENTS
- WIRING AND BONDING AND ALL ELECTRICAL TO NEC ARTICLE 680 OR LOCAL CODE.
 - NO OUTLET OR OVERHEAD POWER WITHIN 10' IF WITHIN 15' PROTECT BYGFI TRANSFORMER MINIMUM 10' FROM POOL, 8" ABOVE WATER J BOX 4' FROM POOL, BRASS TO J BOX OR TRANSFORMER WHICH EVER IS FIRST EXCEPT WHERE PVC IS APPROVED
 - EQUIPOTENTIAL BONDING GRID TO BE ACCOMPLISHED PER THE NEC 2014, SECTION

ADDITIONAL NOTES:

- POOL INSTALLATION SHALL BE BY A QUALIFIED AND LICENSED/APPROVED BY LOCAL BUILDING DEPARTMENT) POOL CONTRACTOR, THE INSTALLATION SHALL CONFORM TO ALL LOCAL BUILDING CODES, IE. PERMITS, SPECIFICATIONS, CODES, RULES, INSPECTIONS, WORKMENSHP, ETC.
- POOL SHELL SHALL BEAR ON UNDISTURBED SOIL, FREE OF PEAT, MUCK, OR OTHER DELETERIOUS MATERIAL OF ANY SIGNIFICANT AMOUNT
- BACKFILL MATERIAL MUST NOT CONTAIN ROCKS OR OTHER MATERIALS THAT COULD DAMAGE POOL WALLS
- POOL TURNOVER SHALL BE 12 HOURS, MAXIMUM WITH CARTRIDGE FILTER, APPROVED PUMP (M₄ HP WITH 29 GPM 60 TDH)
- STEPS SHALL BE PROVIDED AT THE SHALLOW END OF THE POOL.
- LADDERS ARE TO BE PROVIDED IN POOLS WITH GREATER THAN 5' DEPTH WITHOUT SWMOUTS
- INSTALL LOW VOLTAGE LIGHT PER NEC 680
- DURING HURRICANE WARNING OR ALERT, THIS POOL SHALL BE FILLED WITH WATER
- ALL GLASS WITHIN 5' OF WATERS EDGE SHALL COMPLY WITH R308.4(9) FOR SAFETY GLAZING.




G. Gill
7/23/18



GILL ENGINEERING SERVICES. INC.
AUTH #30824
GARY GILL, PE #51942
426 SW COMMERCE DR. 130-M
LAKE CITY, FL 32025
386-590-1242



DRAWING INDEX - BUILDING PACKAGE		
SHEET NUMBER	SHEET NAME	REVISION DATE
T-001	TITLE SHEET	1/24/18
S-001	POOL LAYOUT PLAN	1/24/18
S-002	SECTIONS AND DETAILS	1/24/18

CERTIFIED CONCRETE POOL PLANS			1
PEELER POOLS			
TITLE SHEET			
1532-054	T-001		

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A circular professional engineer seal for Gary Gill. The outer ring contains the text "PROFESSIONAL ENGINEER" at the bottom and "STATE OF FLORIDA" at the top, separated by two stars. The inner circle contains the name "GARY GILL", the word "LICENSE", and the number "No 51942".

Gill
Engineering Services, Inc.

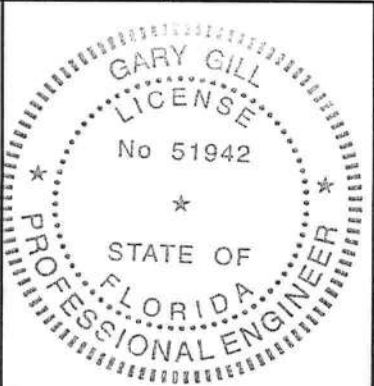
POOL LAYOUT PLAN

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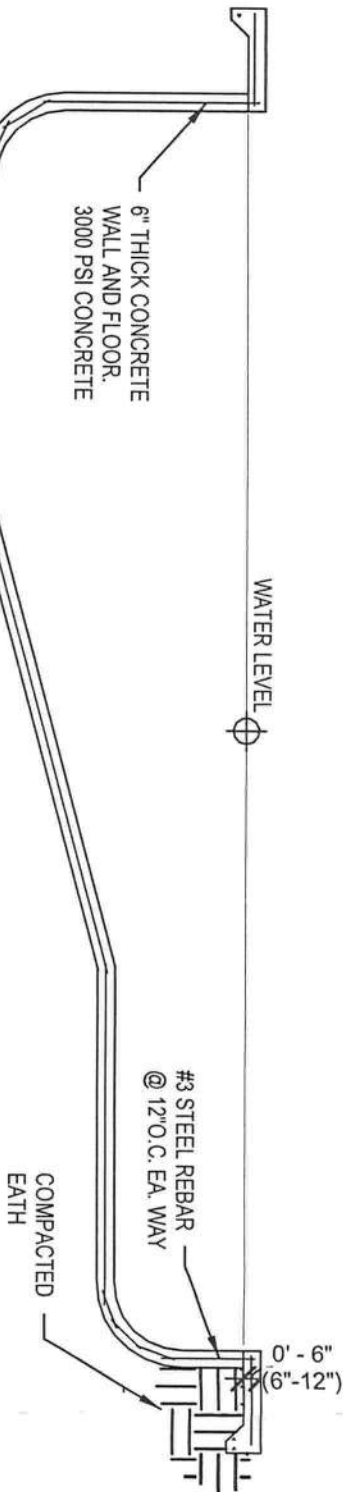
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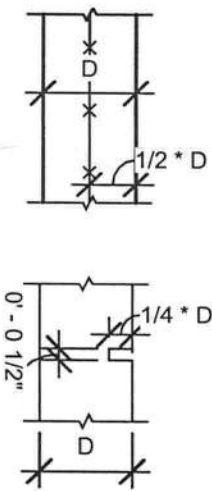
CERTIFIED CONCRETE POOL PLANS	SECTIONS AND DETAILS	1
PEELER POOLS		
1532-054	S-002	

PIPE SIZING CHART (MAX.)		
PIPE	SUCTION	PRESSURE
1 1/2"	35 GPM	60 GPM
2"	60 GPM	100 GPM

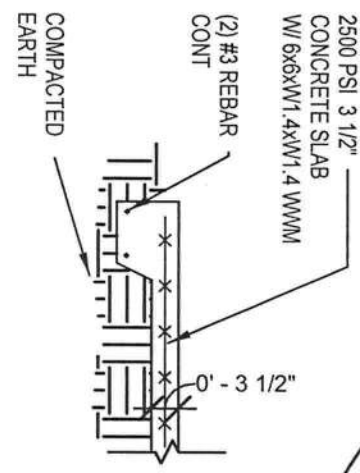
4 PIPE SIZING
 3/8" = 1'-0"



1 POOL SECTION (TYPICAL)
 3/16" = 1'-0"

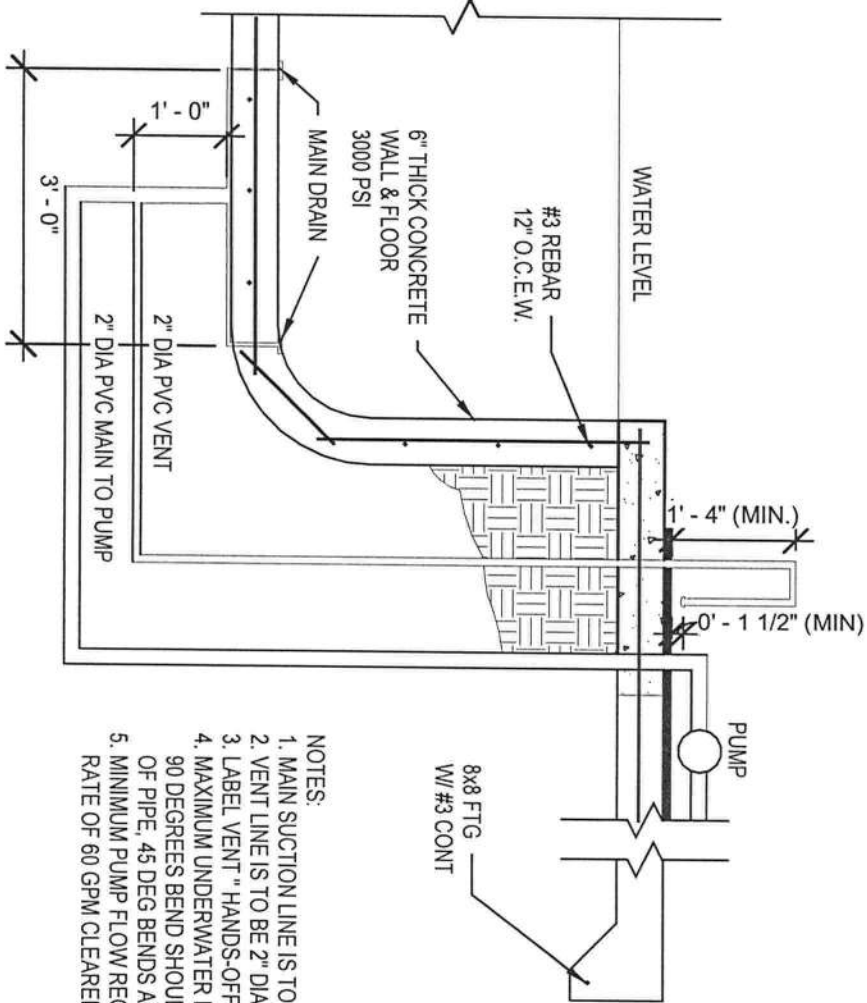


6 SLAB AND JOINT DETAIL
 1 1/2" = 1'-0"

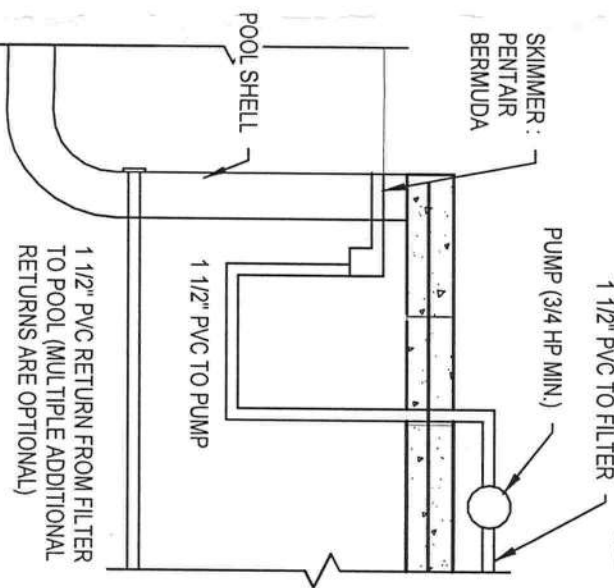


5 SLAB DETAIL
 1/2" = 1'-0"

- NOTES:
1. MAIN SUCTION LINE IS TO BE 2" DIA.
 2. VENT LINE IS TO BE 2" DIA.
 3. LABEL VENT "HANDS-OFF; POOL SAFETY DEVICE"
 4. MAXIMUM UNDERWATER LENGTH OF PIPE IS 30 FT. 90 DEGREES BEND SHOULD BE COUNTED AS 3 FT OF PIPE. 45 DEG BENDS AS 2 FT.
 5. MINIMUM PUMP FLOW REQUIRED IS 42 GPM. TEST FLOW RATE OF 60 GPM CLEARED VENT LINE IN LESS THAN 3 SECS.



2 MAIN DRAIN WITH AIR VENT
 1/2" = 1'-0"



3 SKIMMER MAIN RETURN SYSTEM - SUCTION PIPEWORK DIAGRAM
 1/2" = 1'-0"