

# My Favorite Pool Builder

www.myfavoritepoolbuilder.com

steve@mfplc.com

CPC1459058

Cell 386-965-0066

Swimming Pool Specification For:

David Brotherton

1044 NE Blackberry Cir.

Lake City, FL. 32055

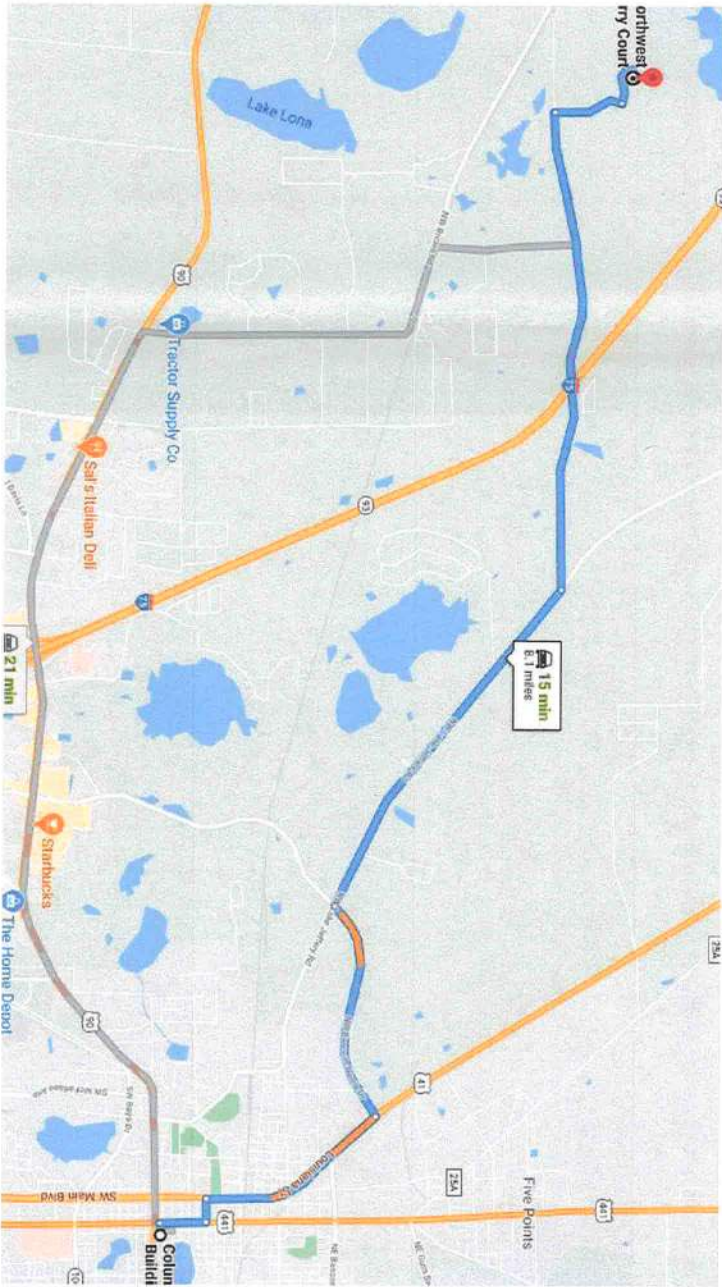
895-835-1145

Page 1	Title Page
Page 2	Deck and Equipment
Page 3	Pool Specifications
Page 4	Energy Efficiency Compliance Data
Page 5	3D pool Images
Page 6	Site Plan information
Page 7	Survey



1956 SW Main Blvd.  
Lake City, FL. 32025

Toll – Fax 800-286-7929  
Lake City 386-269-3307  
Gainesville 382-519-3125  
Jacksonville 904-248-4196  
Valdosta, Ga. 229-469-9525  
Tallahassee 850-296-3622



PLAN EXPIRES 1 YEAR FROM THE  
SIGNATURE DATE OR THE EFFECTIVE  
DATE OF A MAJOR FLORIDA  
BUILDING CODE CHANGE  
WHICHEVER IS SOONER

1/18/2020

My Favorite Pool Builder, Inc.  
1956 SW Main Blvd.  
Lake City, FL. 32025  
(386) 269-3304 OF  
(386) 965-0066 Cell  
CPC1459058

Swimming Pool Specification For:  
David Brotherton  
1044 NE Blackberry Cir.  
Lake City, FL. 32055  
895-835-1145

Scale: None Rev  
Page 1 of 7



TURNDOWN NOTES

1. Detail is based on NO surcharge behind the Turndown and the Ground away from the Turndown is (>4 to 1) Turndown may about Ribbon Footer and be tied into Footer if Appropriate, with #3 Rebar (24" Min Lap).
2. Turndown shall bear on rock, clean sand or structurally sound soils (1,500 psi) that shall be compacted to provide optimum bearing capacity and prevent settling or shifting
3. All Reinforcing steel is to conform to ASTM 615, Grade 40.
4. Concrete shall contain Fiber mesh and have a 28 day compressive strength of 2,500 PSI.
5. POOL SHALL CONFORM TO REQUIREMENTS OF ISPS-C 2018 AND FLORIDA BUILDING CODE, 7TH EDITION, 2020 (FBC) ACCESSIBILITY, FBC BUILDING, FBC RESIDENTIAL, AND ANSI/APSP/ICC-3, ANSI/APSP/ICC-4, ANSI/APSP/ICC-5, ANSI/APSP/ICC-6 AND ANSI/APSP-7, ANSI/APSP-15, AND THE ADOPTED NATIONAL ELECTRIC CODE 2017 (NEC) AND CHAPTER 42 AND CHAPTER 45 OF THE 6TH EDITION OF THE FBC, 2020, RESIDENTIAL.
6. Refer to Contractor's Plan on file with the building department for details on Turn down location.
7. If the base of the turndown does not extend into the old (existing) ground, a 4" Ø plaster will be required every 5' 0" that will be either 2' 0" into the ground or to 6" into the indigenous material, whichever is deeper. The plaster will have a #3 rebar tied to a #5 rebar in the base of the vertical pour.
8. A deck turndown is not intended to be substitute for a retaining wall. If the vertical dimension from the top of the concrete deck to the old (existing) ground reaches 42" for a 12" turndown, for more than 20% of the turndown length or the finished grade slope exceeds (steeper than) 4' horizontally and 1' vertically (1 in 4), a turndown shall not be used.
9. For a paver deck, if the vertical dimension from the top of the deck to the old (existing) ground reaches 30.0" for a 12" turndown, 36.0" for a 18" turndown, for more than 20% of the turndown length or the finished grade slope exceeds (steeper than) 4' horizontally and 1' vertically (1 in 4), a turndown shall not be used.

Footer Notes

1. If a scree enclosure is to be installed, the swimming pool contractor must coordinate the design and construction of any required footer with the screen contractor. Specific details for the footer to be provided by the screen enclosure engineer.
2. Footer shall bear on rock, clean sand or structurally sound soils (1,500 psi) that shall be compacted to provide optimum bearing capacity and prevent settling or shifting
3. Concrete shall contain Fiber mesh and have a 28 day compressive strength of 2,500 PSI.
4. (3) #3 Rebars is equivalent to (1) #5 rebar.
5. #3 - #4 - #5 Rebar lap Minimum lap is 24 inches
6. A footer must be installed with brick paver pool deck if required by the Jurisdiction or the option of the contractor and may be placed over the top Of the footer or abutting the side of the footer.

Pump

Pentair 011018 IntelliFlo 3HP Variable Speed Pool Pump 2" Pipe Self-Priming  
230 volt Phase 1 16 amp with timer  
With Dynamic Head 50

750 RPM-GPM Up to 25 Turn over at this speed 6.16 Hours  
2,350 RPM-GPM Up to 90 Turn Over at this speed 3.19 Hours

Filter

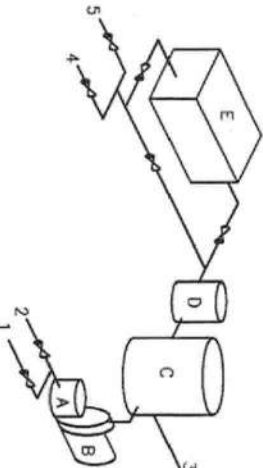
Pentair Sand Dollar Filters

Tank Diameter	Filter Area Sq. Ft.	Lbs. of Sand Required	Max Working Pressure (PSI)	Vtl. Clearance Required	Design Flow Rate GPM	Max Water Temp
16"	1.40	100	30	45"	35	95°F
18"	1.92	150	35	49"	40	95°F
22"	2.64	250	40	55"	60	95°F
24"	3.15	300	50	58"	70	95°F
26"	3.69	350	50	60"	75	95°F

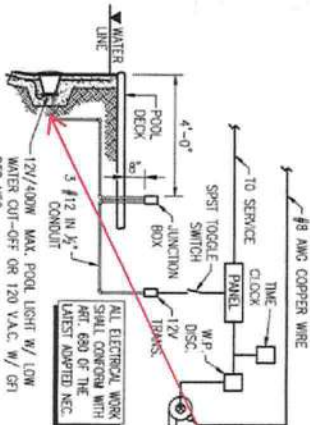
Pentair Clean and Clear

Product #	sq. ft.	GPM	Residential Maximum Cartridge Flow Rates				Commercial Maximum Cartridge Flow Rates			
			GPH	6 hour	8 hour	GPM	GPH	6 hour	8 hour	
160314	50	50	3,000	18,000	24,000	19	1,140	6,840	9,120	
160315	75	75	4,500	27,000	36,000	28	1,680	10,080	13,440	
160316	100	100	6,000	36,000	48,000	38	2,280	13,680	18,240	
160317	150	150	9,000	54,000	72,000	56	3,360	20,160	26,880	
160318	200	150	9,000	54,000	72,000	75	4,500	27,000	36,000	

(1) One GPM per sq. ft. of pool area  
(2) Commercial flow rate is a maximum of .375 GPM per sq. ft. of filter area.  
NOTE: Actual system flow will depend on plumbing size and other system components.

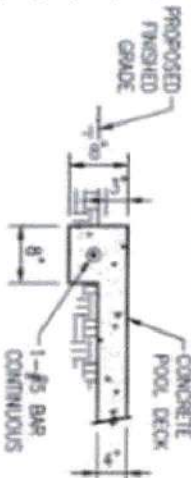


FILTER SYSTEM



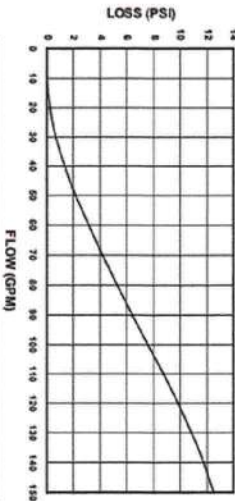
Light for pool is 12 – Volt LED Color powered by transformer

8" x 8" FOOTER



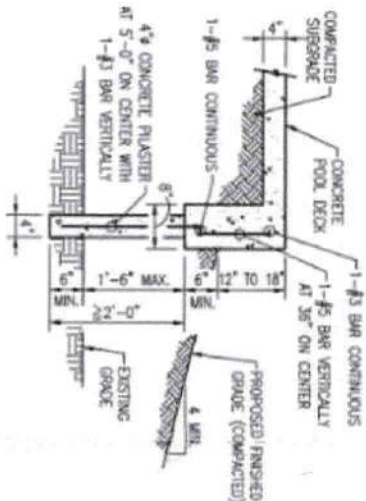
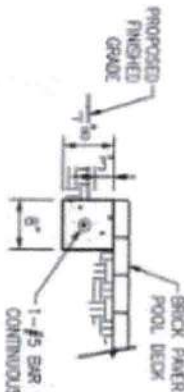
NO FOOTER

FNS® Plus Vertical Grid Filters  
FILTER PRESSURE LOSS  
FNS-Plus SERIES



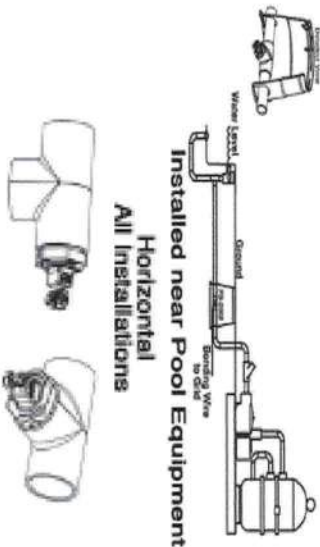
sq.ft.	Height	GPM	GPH	6 hour	8 hour
48	40"	120	7,200	43,200	57,600
60	55"	150	9,000	54,000	72,000

8" x 8" FOOTER W/ PAVER DECK



CONCRETE DECK TURNDOWN

PoolBond PB-2008 Water Bonding Fitting



PLAN EXPIRES 1 YEAR FROM THE SIGNATURE DATE OR THE EFFECTIVE DATE OF A MAJOR FLORIDA BUILDING CODE CHANGE WHICHEVER IS SOONER

1/26/2020  
Date

John Duranko, A.R.  
103 Willison Rd.  
West Palm Beach, FL. 33406  
FL Lic# AR0011649

Signature of John Duranko

My Favorite Pool Builder, Inc.  
1956 SW Main Blvd.  
Lake City, FL. 32025  
(386) 269-3304 OF  
(386) 965-0066 Cell  
CPC1459058

Swimming Pool Specification For:

David Brotherton  
1044 NE Blackberry Cir.  
Lake City, FL. 32055  
895-835-1145

Scale: None Rev  
Page 2 of 7



802.1 MATERIALS OF COMPONENTS AND ACCESSORIES

swimming pool materials shall be suitable for the environment in which they are installed and shall be compatible fulfilling the design, installation and intended use requirement in the International Residential Code (IRC)

*The subject pools are compound of fiberglass shells meeting the requirements. See "FIBERGLASS SHELL REQUIREMENTS"*

80 2.2 STRUCTURAL DESIGN  
The structural design and materials shall be in accordance with the IRC.

*The subject pools meet or exceed all loads prescribed and IRC section 301. All Pool installations in flood Hazard A or V zones (as noted in IRC section 322) require additional hold - down features to be designed in a case-by-case basis.*

803.1 CONSTRUCTION TOLERANCES  
The construction tolerances for dimension for the overall length width and depth of the pool shall be +/- 3 inches. The construction tolerance is for all other dimension shall be +/- 2 inches, unless otherwise specified by the design engineer.

*The subject pool meets the noted construction tolerances. Field installation tolerance should be verified during field inspections.*

804 Diving Water Envelopes  
N/A The subject pools are non-diving.

805 Walls  
Walls in the shallow area and deep areas of the pool should have a wall-to-floor transition point that is less than 33 inches below the design water line. Above the transition point, the wall shall be within 11 degrees of vertical

*The subject pools have a wall-to-floor transition 41" below the design waterline and the walls are within 6 degrees of vertical.*

806.1 OFFSET LEDGES - MAXIMUM WIDTH  
Offset ledges shall be not greater than 8 inches in width.

*The subject pools have offset ledges equal to 3 1/2".*

807.1 POOL FLOOR SLOPES  
Floor Slopes shall be in accordance with Section 807.1.1 through 807.1.3.

*The subject pools have a single 1 unit vertical to 14 unit horizontal slope either meeting or making all the subjects requirements N/A.*

807.2. SHALLOW END WATER DEPTHS  
The design water depth as measured at the shallowest point in the shallow area shall be not less than 33 inches and not greater than 4 feet. Shallow area designed in accordance with Section 809.6, 809.7 and 809.8 shall be exempt from the minimum depth requirement.

*The subject pools have a minimum depth of 3'- 8" (44")*

808 DIVING EQUIPMENT  
N/A The subject pools are non-diving.

809 SPECIAL FEATURES

809.1 SLIDES  
N/A The subject pools do not include integral slides.

809.2 ENTRY AND EXIT  
Pool shall have a means of entry and exit in all shallow areas where the design water depth of the shallow area at the shallowest point exceed 24 inches at the shallowest point. Entries and exits shall consist of one or a combination of the following: steps, stairs, ladders, Treads, ramps, Beach entries, underwater seats, benches, swim out and other prove designs. The means of entry and exit shall be located on the shallow side of the first slope change. -

809.2 Cont -

*The subject pools have at least one stair at the shallow end of the pool.*

809.3 SECONDARY ENTRIES AND EXITS  
Where water depth in the Deep area the pool exceeds 5 feet, a means of entry and exit shall be provided in the deep area of the pool.

*The subject pools have an underwater seat in the deep end.*

809.4 OVER 30 FEET WIDTH  
N/A The subject pools are not in excess of 30' in width.

809.5.1 TREAD DIMENSION AND AREA  
Treads shall have a minimum of unobstructed horizontal death of 10 inches and a minimum unstructured surface area of 204 square inches.

*N/A The subject pools have a minimum of unobstructed horizontal death of 10 inches and a minimum unstructured surface area of 240 square inches.*

809.5.2 RISER HEIGHTS  
Risers, other than the top and bottom riser shall have a uniform height of not greater than 12 inches (305 mm). The top riser height shall be any dimension not exceeding 12 inches (305 mm). The bottom riser height shall be any dimension not exceeding 12 inches (305 mm). The top and bottom riser heights shall not be required to be equal to each other or equal to the uniform riser height. Riser heights shall be measured at the horizontal centerline of the stairs.

*The subject pools have a typical riser height of 12" and top risers of 8".*

809.5.3 ADDITIONAL STEPS  
In design water depths exceeding 48 inches, additional steps shall not be required.

*The subject pools meet this requirement.*

809.6 BEACH AND SLOPING ENTRIES  
N/A The subject pools do not include beach and sloping entries.

809.7 STEPS AND SLOPING ENTRIES  
N/A The subject pools do not include step and sloping entries.

809.8 Architectural Features  
N/A The subject pools do not include architectural features.

809.9 MAXIMUM DEPTH  
The horizontal surface of the underwater seats, benches and swimouts shall be no greater than 20 inches (508 mm) below the design waterline.

*N/A The subject pools meets this criteria.*

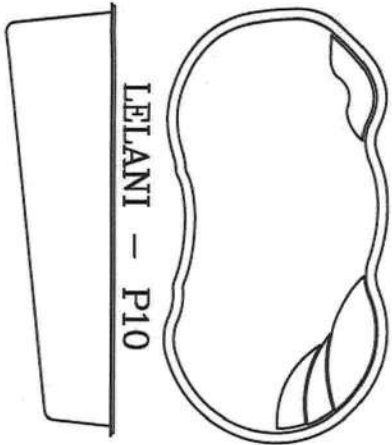
810.1 TURNOVER RATE  
The circulation system equipment shall be sized to provide a turnover of the pool water not less than once every 12 hours. The system shall be designed to provide the required turnover rate based upon the manufacturer's specified flow rate of the filter, with clean media condition of the filter.

*The subject pools provide a turnover of the pool water not less than once every 12 hours.*

810.2 STRAINER REQUIRED  
Pressure filter system shall be provided with a strainer located between the pool and the circulation pump.

*The subject pools provides a strainer located between the pool and the circulation pump.*

811.1 ROPE AND FLOAT  
*The subject pools do not have a break in the floor slope.*



INSIDE DIM: 11'-3"x22'-9"  
DEPTH: 5'-11"  
VOLUME: 6000 GAL.  
AREA: 217 SQ.FEET  
PERIMETER: 60 LN.FEET

GENERAL CONSTRUCTION NOTES:

- 1) -Backfill shall have bearing value greater than 60 PSF with Vertical angle of Repose. Back-fill material must not contain rocks that could damage pool walls. Back-fill shall be installed and compacted in lifts to match water level in pool and not deform pool.
- 2) -Therapy seats, where installed, shall be recessed in to the sides of such pool not more than 20 inches below water level, and in such a manner as to clearly distinguish such underwater obstructions from pool areas in to which persons may dive.
- 3) -Swimming pool skimmer(s) shall have deck openings.
- 4) -Electrical hook-up of pool equipment, rails, boxes, etc. and grounding of deck steel shall be in accordance with the National Electrical Code and all applicable state and local building codes by a licensed electrical contractor.

- 5) -Install 12 volt light. When allowed by local code. Higher voltage shall be GFI protected per NEC. At installers option LED or Fiberoptic Lighting may be used.
- 6) -If the slope from shallow end to deep end is more than 1:7 a safety rope shall be provided when required.
- 7) -Supports and steps shall be properly reinforced and of sufficient structural strength to safely carry all anticipated loads.
- 8) -All pipe to be PVC schedule40 suitable for potable water, or to local code.
- 9) -Direct suction pipes from the pool shall have Secondary Reliefs.

GENERAL CONSTRUCTION NOTES: Cont-

10. -Pool installation shall be by a qualified and licensed (approved by local building department and San Juan pools) pool contractor. The installation shall conform to all state and local building codes, as well as tenants of any association with Jurisdiction.
11. -Water supply and disposal shall be so arranged that there is no cross connection with domestic service.
12. -Main drain cover to be certified as compliant with ANSI/ASME A112.19.8M or a grate with a minimum open area of 144 sq. in. or as to local codes, securely fastened in place.
13. -All electric shall conform to N.E.C. No overhead wires shall pass within 10 feet of pool.
14. -Concrete shall be min. 2500 psi at 28 days. Deck Slab to have 6x6, #10/10 wwm or equal suspended in conc. Fibermesh conc. may be used in lieu of 6x6 10x10 wwm as allowed by local codes.
15. -Pool bottom to be placed in 4" min. sand or 3/8" max dia stone.
16. -Hydrostatic pressures: design assumes pool is full at all times, with any required hold downs and reinforcing by others.
17. -Hydrostatic relief valve not credited for more than 2 feet of the difference of head between pool bottom and floor criteria level, use where code requires.
18. - Pool shall bear on undisturbed soil, free of peat, muck or other deleterious material of any significant amount.

PLAN EXPIRES 1 YEAR FROM THE  
SIGNATURE DATE OR THE EFFECTIVE  
DATE OF A MAJOR FLORIDA  
BUILDING CODE CHANGE  
WHICHEVER IS SOONER

My Favorite Pool Builder, Inc.

1956 SW Main Blvd.

Lake City, FL. 32025

(386) 269-3304 OF

(386) 965-0066 Cell

CPC1459058

Date

1/26/2020

John Duranko, A.R.

103 Willison Rd.

West Palm Beach, FL. 33406

FL Lic# AR0011649

Swimming Pool Specification For:

David Brotherton

1044 NE Blackberry Cir.

Lake City, FL. 32055

895-835-1145

Scale: None Rev

Page 3 of 7



Swimming Pool Energy Efficiency Compliance Information  
NOTE: These Requirements Apply ONLY to Filtration Pumps  
ANSI/APSP/ICC-15 2011

Flow Calculations

Pool water volume 6,000 ÷ 360 = 17 GPM - this is the calculated flow rate

NOTE: for pools under 13,000 gals. The calculated flow rate or 36 gpm whichever is greater = filtration flow rate

Is there an Auxiliary load on the filter?

☐ Yes ☒ No

If so what is the calculated auxiliary flow rate \_\_\_\_\_ gpm

Flow rate (low speed)

Minimum suction side pipe size @ 6 fps  
Minimum return side pipe size @ 8 fps

25 gpm @ 1500 rpm.  
1.5 in.  
1.5 in.

Minimum suction side branch pipe size @ 6 fps  
Minimum return side branch pipe size @ 8 fps

1.5 in.  
1.5 in.

Determine Filter Size:

Filter Factors (GPM/SF):

Filter Size: 75

Cartridge (0.375)

(Filter Fact)

5

15 Sand (15)

(Flow rate)

15

(Filter Size)

Pump Controls

Filtration pump has no auxiliary load - standard time clock

☒

Filtration pump with auxiliary load - Control model for low speed default within 24 hr.

Filtration pump with auxiliary load - Control model for low speed default within 24 hr.

Pump Model

Pentair 3hp IntelliFlow VSF

Heater Model

None

Gas Heater efficiency rating \_\_\_\_\_

89

Heat Pump efficiency C.O.P. \_\_\_\_\_

N/A

Master Temp 400K NG

Programmable controller

☒

ANSI 5 & ANSI 7 Compliance Work Sheet

Determine Simplified TDH:

1. Distance from pool to pump in feet:

100

Pipe size suction

2. Friction loss (in suction pipe) in (6)

2

inch pipe per 1 ft. @

3. Friction loss (in return pipe) in (8)

2

inch pipe per 1 ft. @

2in Pipe Size Return

0.06 GPM =

0.10 GPM =

2in

(from pipe flow/friction loss chart)

(from pipe flow/friction loss chart)

Date 1/18/2021

Contractor Signature

CPC1459058

Contractors Cert #

386-965-0066

Contractors Tele#

David Brotherton

Owner Name

1044 NE Blackberry Cir.

Lake City, FL 32055

Address

Scale None

TDH in Piping

Filter/Heater loss in TDH

All other losses Fittings and Values

Total Dynamic Head (TDH)

Suction

12

Return

20

Filter

1.8

Heater

0

32

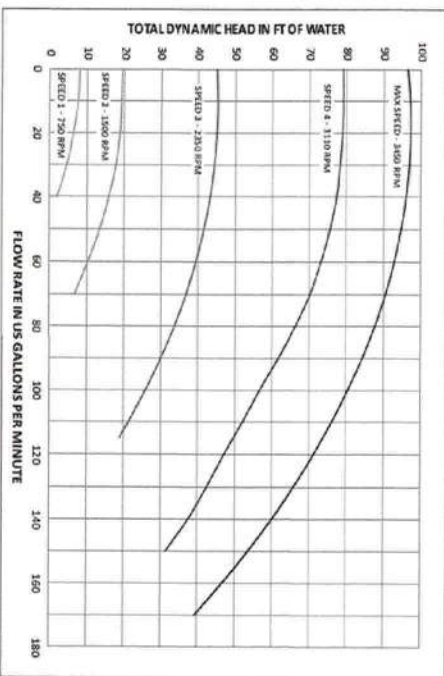
1.8

8

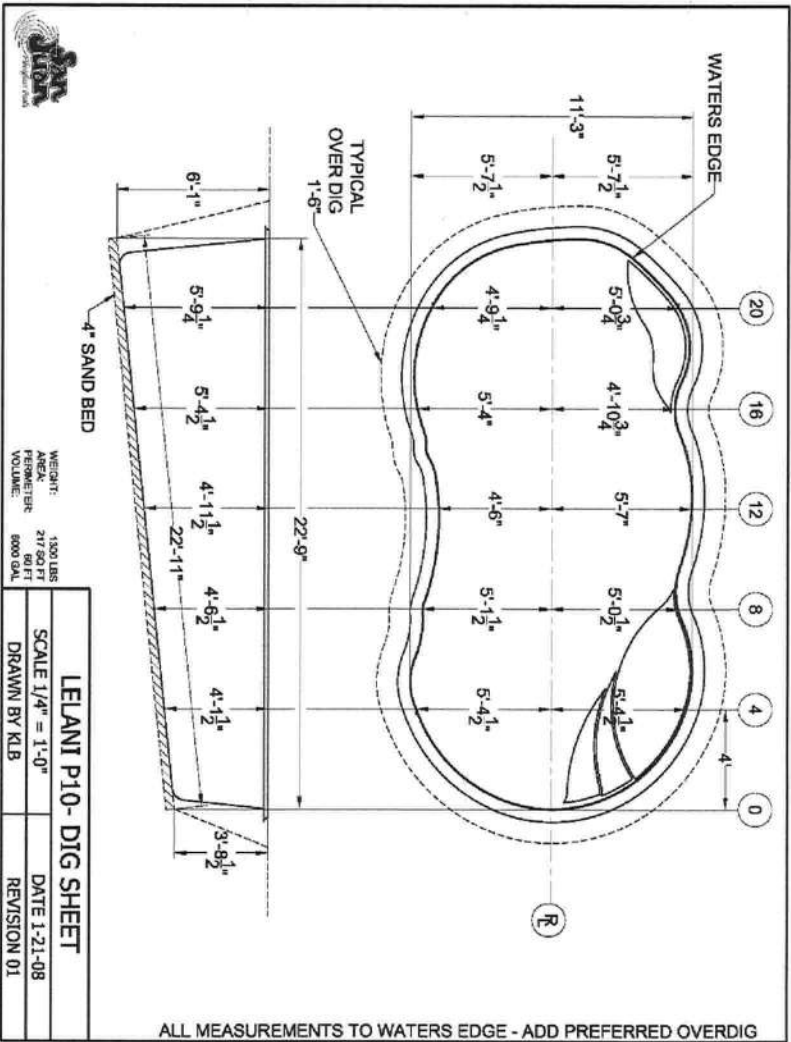
41.8

Pipe Size	Velocity - Feet Per Second		
	6 FPS	8 FPS	10 FPS
1.5"	37 gpm	0.08'	50 gpm
2"	62 gpm	0.06'	82 gpm
2.5"	88 gpm	0.05'	117 gpm
3"	136 gpm	0.04'	181 gpm
4"	234 gpm	0.03'	313 gpm
6"	534 gpm	0.02'	712 gpm

SECTION IV. TECHNICAL DATA (cont'd.)  
B. FNS PLUS FLOW RATES







David Brotherton  
1044 NE Blackberry Cir.  
Lake City, FL. 32055

Contractor My Favorite Pool Builder, Inc. CPC1459058 Steve Cronin  
386-965-0066 [steve@mfplc.com](mailto:steve@mfplc.com)

Par ID 17-3S-16-02168-121

Distance from Pool water line to property line.

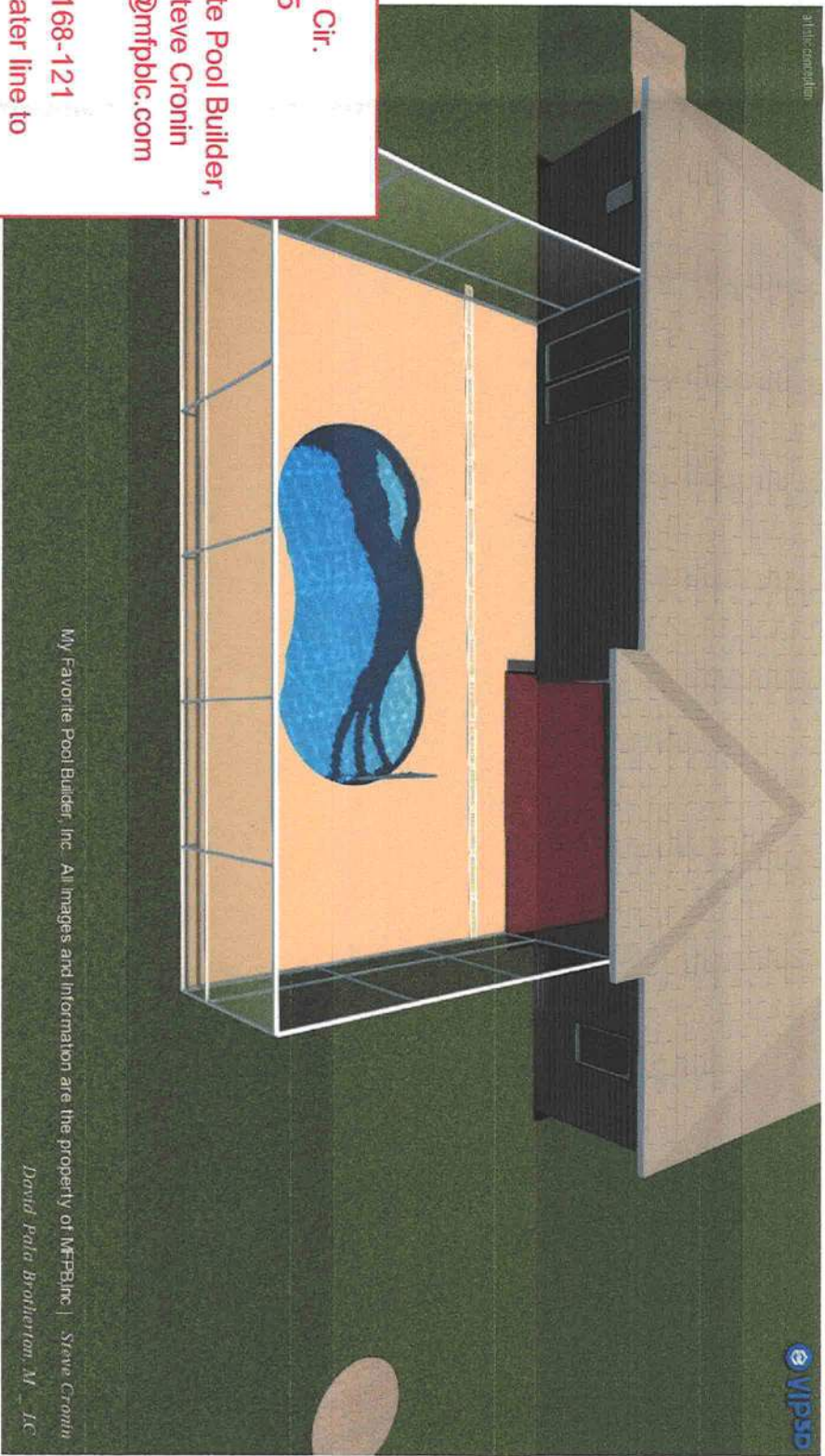
109 FT to North  
103 FT to South  
149 FT to East  
294 FT to West

38 FT to well water  
38 FT to Septic system

Power to house is run underground and is more than 19.5' away from pools waters edge

NO Glass with 60LN Of pools water

Pool deck water will Drain away from pool onto ground.



My Favorite Pool Builder, Inc. 1956 SW Main Blvd. Lake City, FL. 32025 (386) 269-3304 OF CPC1459058	Swimming Pool Specification For: David Brotherton 1044 NE Blackberry Cir. Lake City, FL. 32055 895-835-1145
PLAN EXPIRES 1 YEAR FROM THE SIGNATURE DATE OR THE EFFECTIVE DATE OF A MAJOR FLORIDA BUILDING CODE CHANGE WHICHEVER IS SOONER	1/18/2020
Scale: None Rev	Page 5 of 7







