

My Favorite Pool Builder

www.myfavoritepoolbuilder.com

steve@mfplc.com

CPC1459058

Cell 386-965-0066

Swimming Pool Specification For:

Terri Gianos

678 SW Barney St.

High Springs, FL. 32643

215-983-5280

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
Page 8	Site Plan Additional Details



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

10/1/2020

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:
Terri Gianos
678 SW Barney St.
High Springs, FL. 32643
215-983-5280

Scale: None Rev
Page 1 of 8

TURNDOWN NOTES

- Detail is based on NO surcharge behind the Turndown and the Ground away from the Turndown is (>4 to 1) Turndown may abut Ribbon Footer and be tied into Footer if Appropriate, with #3 Rebar (24" Min Lap).
- 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
- All Reinforcing steel is to conform to ASTM 615, Grade 40.
- Concrete shall contain Fiber mesh and have a 28 day compressive strength of 2,500 PSI.
- POOL SHALL CONFORM TO REQUIREMENTS OF ISFSC 2015 AND FLORIDA BUILDING CODE, 6TH EDITION, 2017 (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 2014 (NEC) AND CHAPTER 42 AND CHAPTER 45 OF THE 6TH EDITION OF THE FBC, 2017, RESIDENTIAL.
- Refer to Contractor's Plan on file with the building department for details on Turn down location.
- 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.
- 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.
- 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

- 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.
- 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
- Concrete shall contain Fiber mesh and have a 28 day compressive strength of 2,500 PSI.
- (3) #3 Rebars is equivalent to (1) #5 rebar.
- #3 - #4 - #5 Rebar lap Minimum lap is 24 inches
- 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

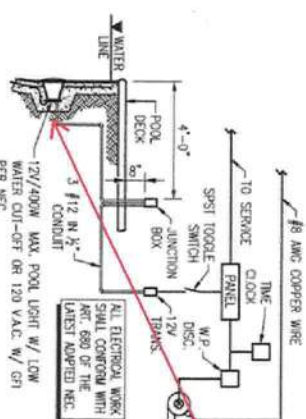
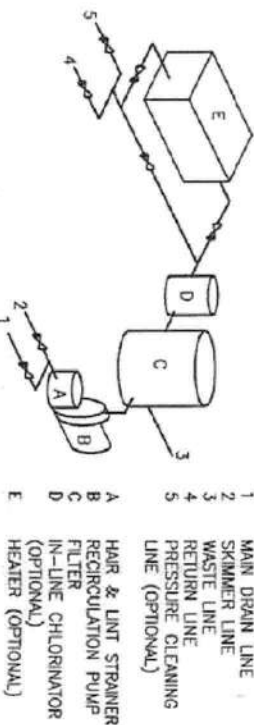
Tank Diameter	Filter Area Sq. Ft.	Lbs. of Sand Required	Max Working Pressure (PSI)	Vol. Clearance Required	Design Flow Rate GPM	Max Water Temp
16"	1.40	100	30	45"	35	95°F
19"	1.92	150	35	49"	40	95°F
22"	2.64	250	40	55"	60	95°F
24"	3.15	300	50	58"	70	95°F
26"	3.69	350	50	60"	75	95°F

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	54	3,240	19,440	25,920	
160318	200	150	9,000	54,000	72,000	75	4,500	27,000	36,000	

(1) ~~Up to 375 GPM per sq. ft. should be achieved and flow rate for residential is 5.0 GPM per sq. ft.~~
(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

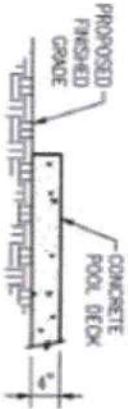


ELECTRICAL DIAGRAM

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

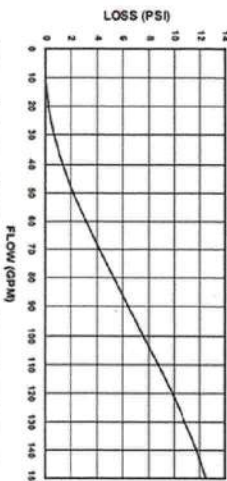


8" x 8" FOOTER

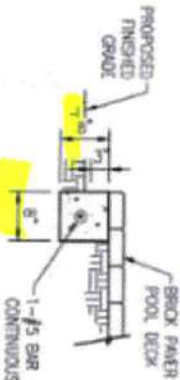


NO FOOTER

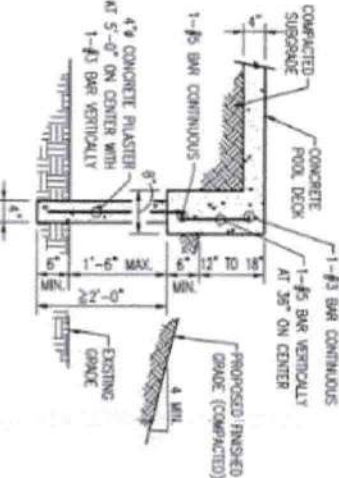
FNS® Plus Vertical Grid Filters
FILTER PRESSURE LOSS
FNS-Plus SERIES



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



8" x 8" FOOTER W/ PAYER DECK



CONCRETE DECK TURNDOWN

Water Bonding Details

are located at the bottom of page 4

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

10/1/2020

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

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:
Terri Gianos
678 SW Barney St.
High Springs, FL 32643
215-983-5280

Scale: None Rev
Page 2 of 8

2015 ISPSC – SWIMMING POOL CODE ANALYSIS
CHAPTER 8 - PERMANENT IN-GROUND RESIDENTIAL SWIMMING POOL

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"

802.2 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 1/4".

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 unstructred surface area of 204 square inches.

N/A The subject pools have a minimum of unobstructed horizontal death of 10 inches and a minimum unstructred 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.

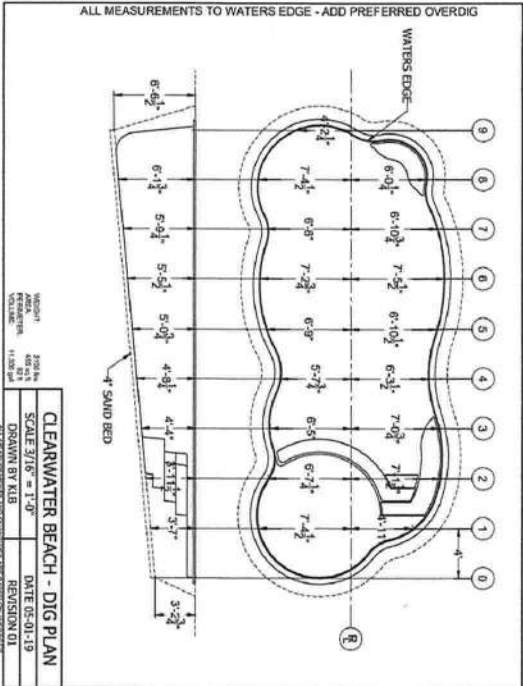
810.2 STRAINER REQUIRED

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.



GENERAL CONSTRUCTION NOTES:

- 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.
- 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 cleanly distinguish such underwater obstructions from pool areas in to which persons may dive.
- Swimming pool skimmer(s) shall have deck openings.
- 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.
- 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.
- If the slope from shallow end to deep end is more than 1:7 a safety rope shall be provided when required.
- Supports and steps shall be properly reinforced and of sufficient structural strength to safely carry all anticipated loads.
- All pipe to be PVC schedule40 suitable for potable water, or to local code.
- Direct suction pipes from the pool shall have Secondary Reliefs.

GENERAL CONSTRUCTION NOTES: Cont-

- 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.
- Water supply and disposal shall be so arranged that there is no cross connection with domestic service.
- 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.
- All electric shall conform to N.E.C. No overhead wires shall pass within 10 feet of pool.
- 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.
- Pool bottom to be placed in 4" min. sand or 3/8" max dia stone.
- Hydrostatic pressures: design assumes pool is full at all times, with any required hold downs and reinforcing by others.
- 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.
- Pool shall bear on undisturbed soil, free of peat, muck or other deleterious material of any significant amount.

WEIGHT: 2100 lbs
AREA: 455 sq ft
PERIMETER: 92 ft
VOLUME: 11,300 gal

Pool Size 16' x 37' x 6' 4"

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	
10/1/2020		Swimming Pool Specification For:	
John Duranko, A.R. 103 Willison Rd. West Palm Beach, FL 33406 FL Lic# AR0011649		Terri Gianos 678 SW Barney St. High Springs, FL 32643 215-983-5280	
Scale: None Rev Page 3 of 8			

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

Flow Calculations

Pool water volume **11,300** \div 360 = **31** 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)

25

gpm @

1.5

in.

1500

gpm.

Minimum suction side pipe size @ 6 fps

1.5

in.

Minimum suction side branch pipe size @ 6 fps

1.5

in.

Minimum return side pipe size @ 8 fps

1.5

in.

Minimum return side branch pipe size @ 8 fps

1.5

in.

Determine Filter Size:

Filter Factors (GPM/SF):

75

(Flow rate)

15

(Filter Fact)

0 DE (2.0)

15 Sand (15)

1.5

in.

1.5

in.

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

Heater Model

Gas Heater efficiency rating

89

Heat Pump efficiency C.O.P.

N/A

ANSI 5 & ANSI 7 Compliance Work Sheet

Determine Simplified TDH:

1. Distance from pool to pump in feet:

100

Pipe size suction

2

in

Pipe Size Return

2in

GPM =

0.12

(from pipe flow/friction loss chart)

0.2

GPM =

0.10

(from pipe flow/friction loss chart)

12

Suction

20

Return

1.8

Filter

0

Heater

32

TDH in Piping

1.8

Filter/Heater loss in TDH

12

All other Losses Fittings and Values

45.8

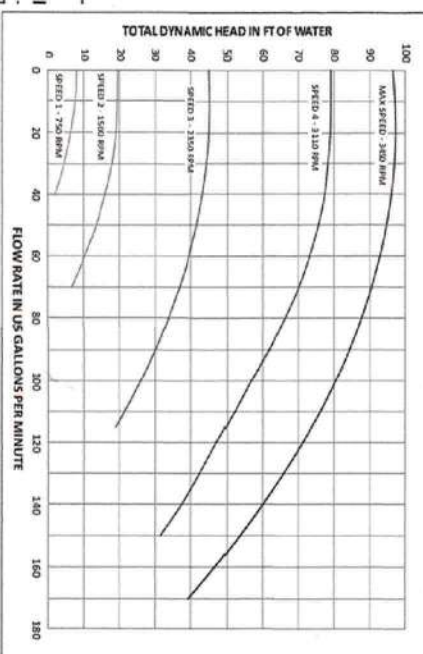
Total Dynamic Head (TDH)

Programmable controller

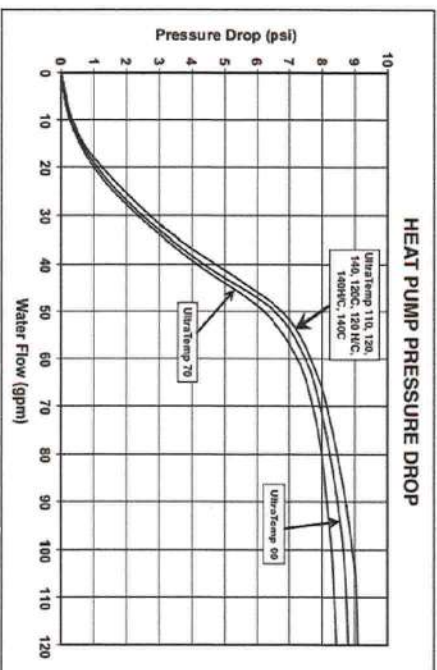
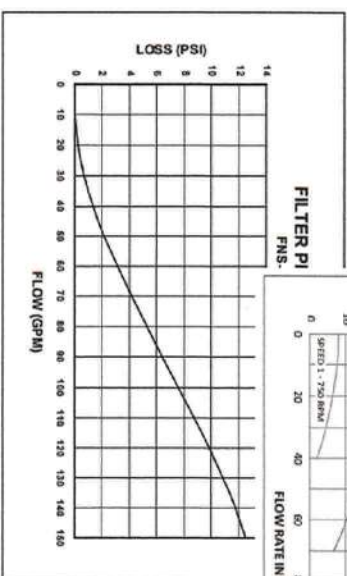
☒

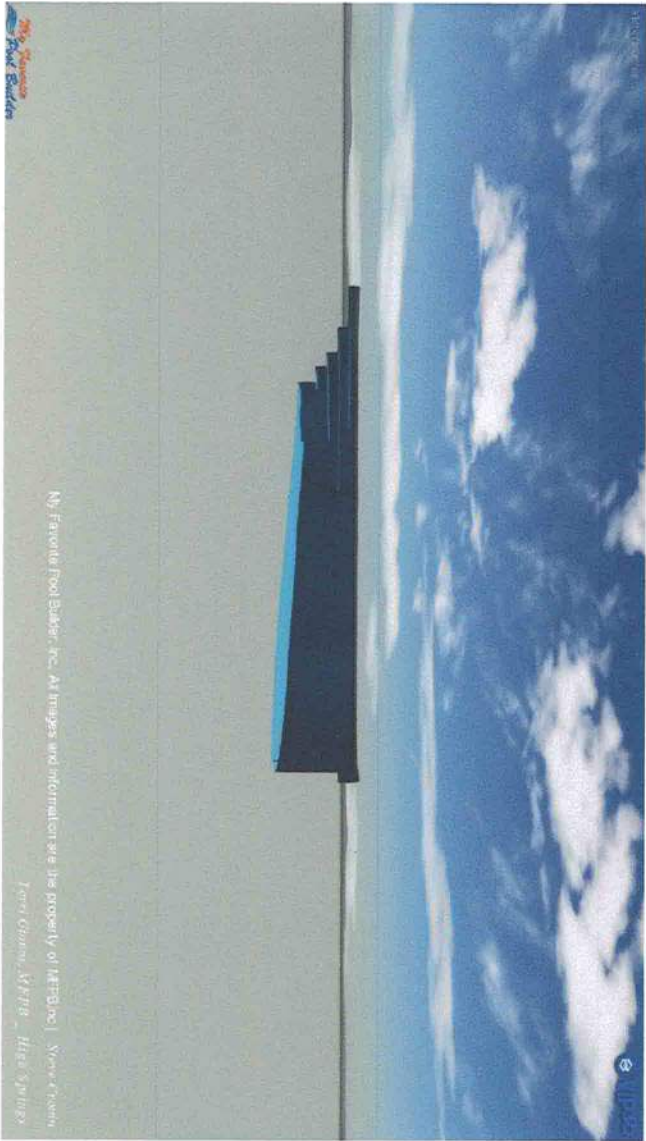
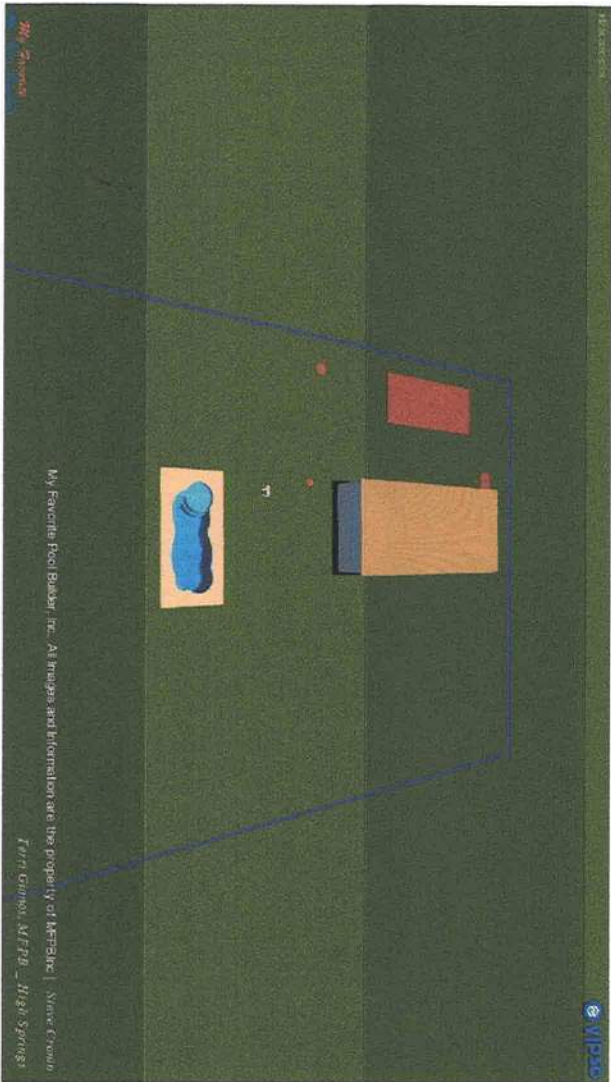
Master Temp 400K NG

Pump Performance Curves (3HP IntelliFlo Pumps)



SECTION IV - TECHNICAL DATA (cont'd.)
B. PUMP PUSHFLOW RATES





Terri Gianos
678 SW Barney St.
High Springs, FL. 32643

Contractor My Favorite Pool Builder,
Inc. CPC1459058 Steve Cronin
386-965-0066 steve@mfpb.com

.Par ID 09-7S-17-09961-011

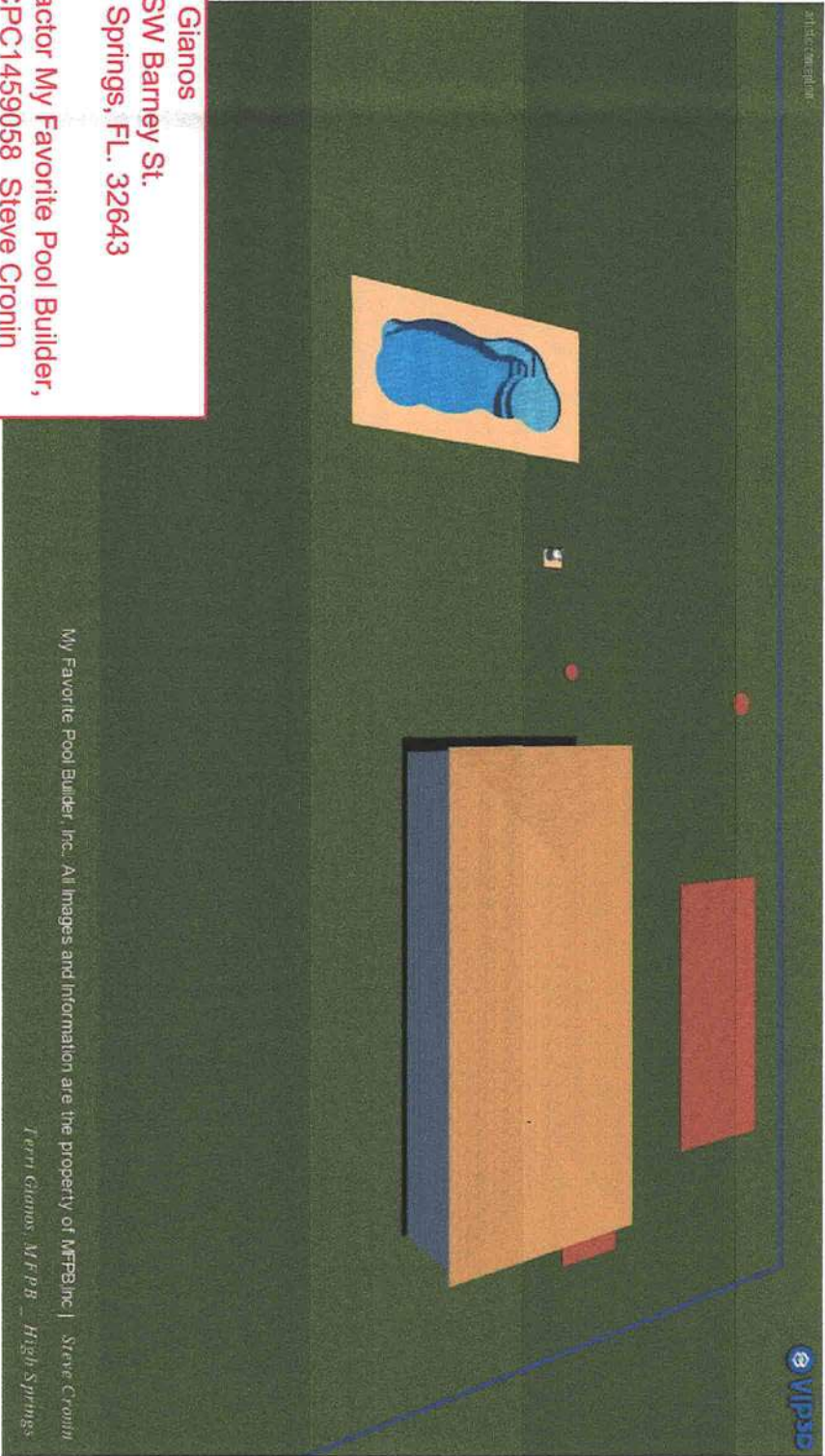
Distance from Pool water line to
property line.

80 FT to North
55 FT to South
276 FT to East
158 FT to West

63 FT to well water
86 FT to Septic system
Power to house is run underground
and is more than 20' away from pools
waters edge

NO Glass with 60IN Of pools water

Pool deck water will Drain away from
pool onto ground.



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

10/1/2020

Swimming Pool Specification For:

Terri Gianos
678 SW Barney St.
High Springs, FL. 32643
215-983-5280

Scale: None Rev
Page 5 of 8

- Terri Gianos
- 678 SW Barney St.
- High Springs, FL. 32643

Contractor My Favorite Pool Builder,
Inc. CPC1459058 Steve Cronin
386-965-0066 steve@mfpblc.com

Par ID 09-7S-17-09961-011

Distance from Pool water line to property line.

80 FT to North

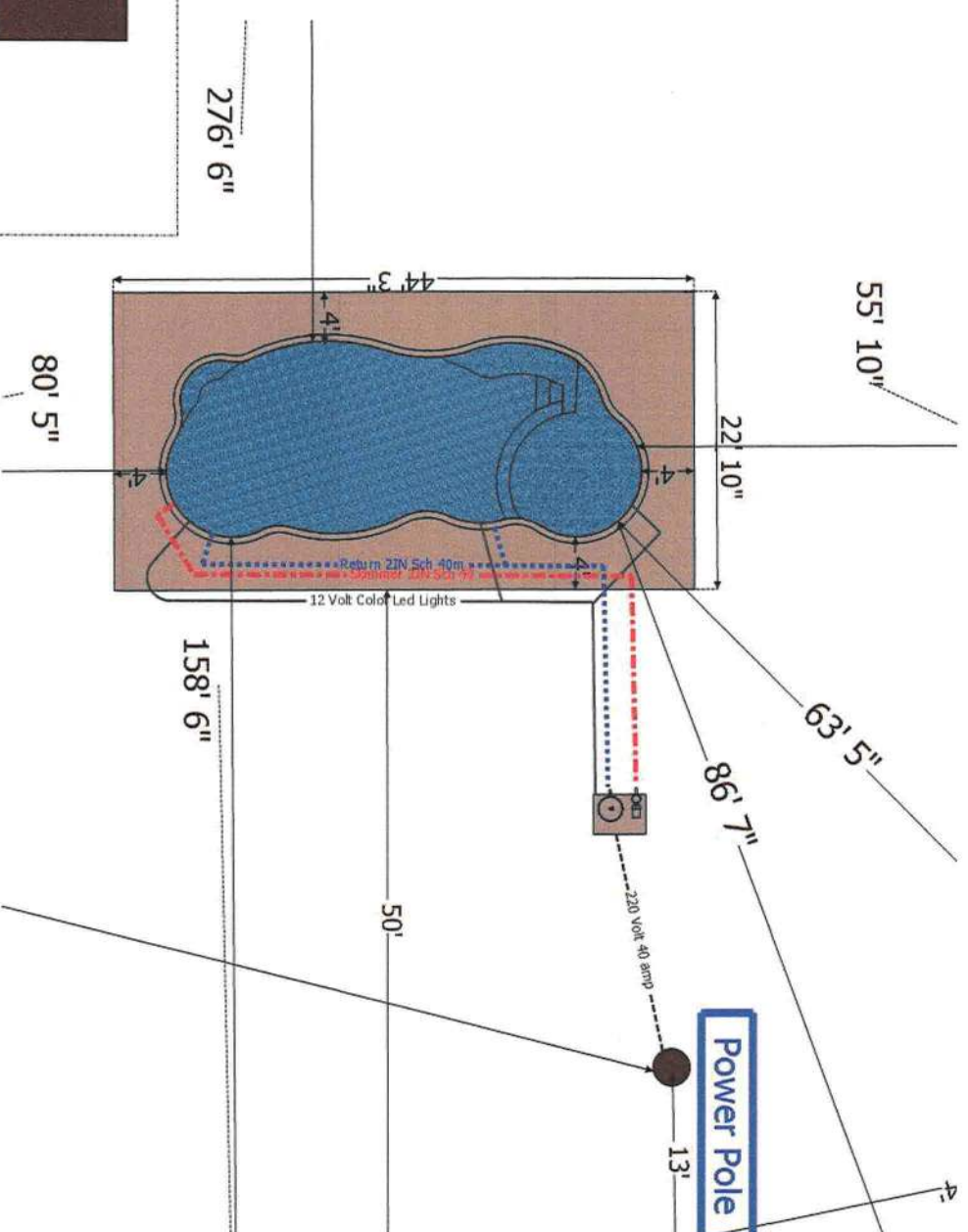
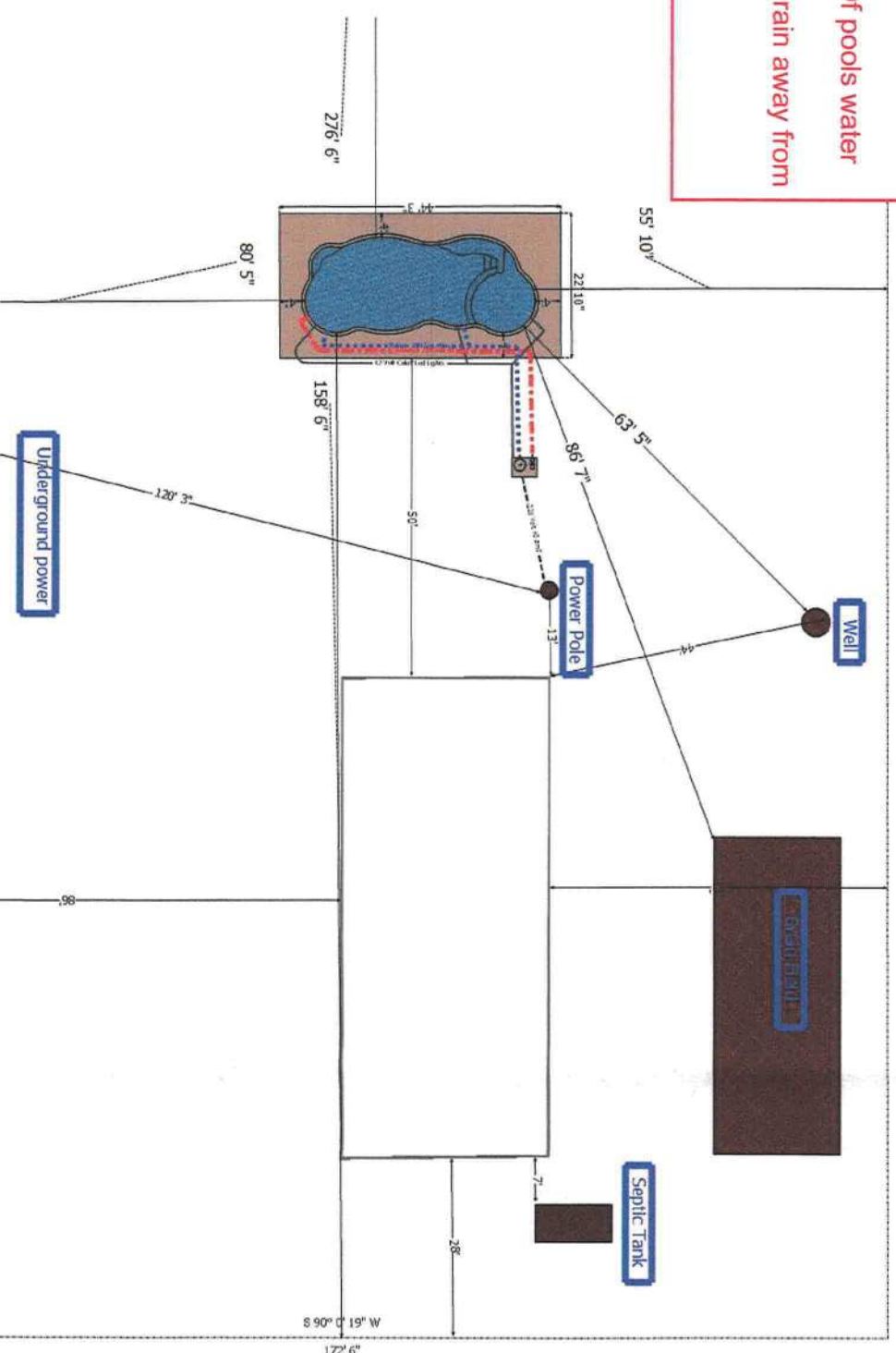
55 FT to South

276 FT to East
158 FT to West

63 FT to well water

86 F1 to Septic system
Power to house is run underground and is more than 20' away from pools waters edge

NO Glass with 60IN Of pools water
Pool deck water will Drain away from
pool onto ground.



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

10/1/2020

Swimming Pool Specification For:

Terri Gianos
678 SW Barney St.
High Springs, FL. 32643
215-983-5280

Scale: None Rev
Page 6 of 8

