



www.myfavoritepoolbuilder.com

steve@mfpblc.com

CPC1459058

Cell 386-965-0066

Swimming Pool Specification For:

Terry Milliman

119 NW Kirstin Dr. Lake City, FL 32055

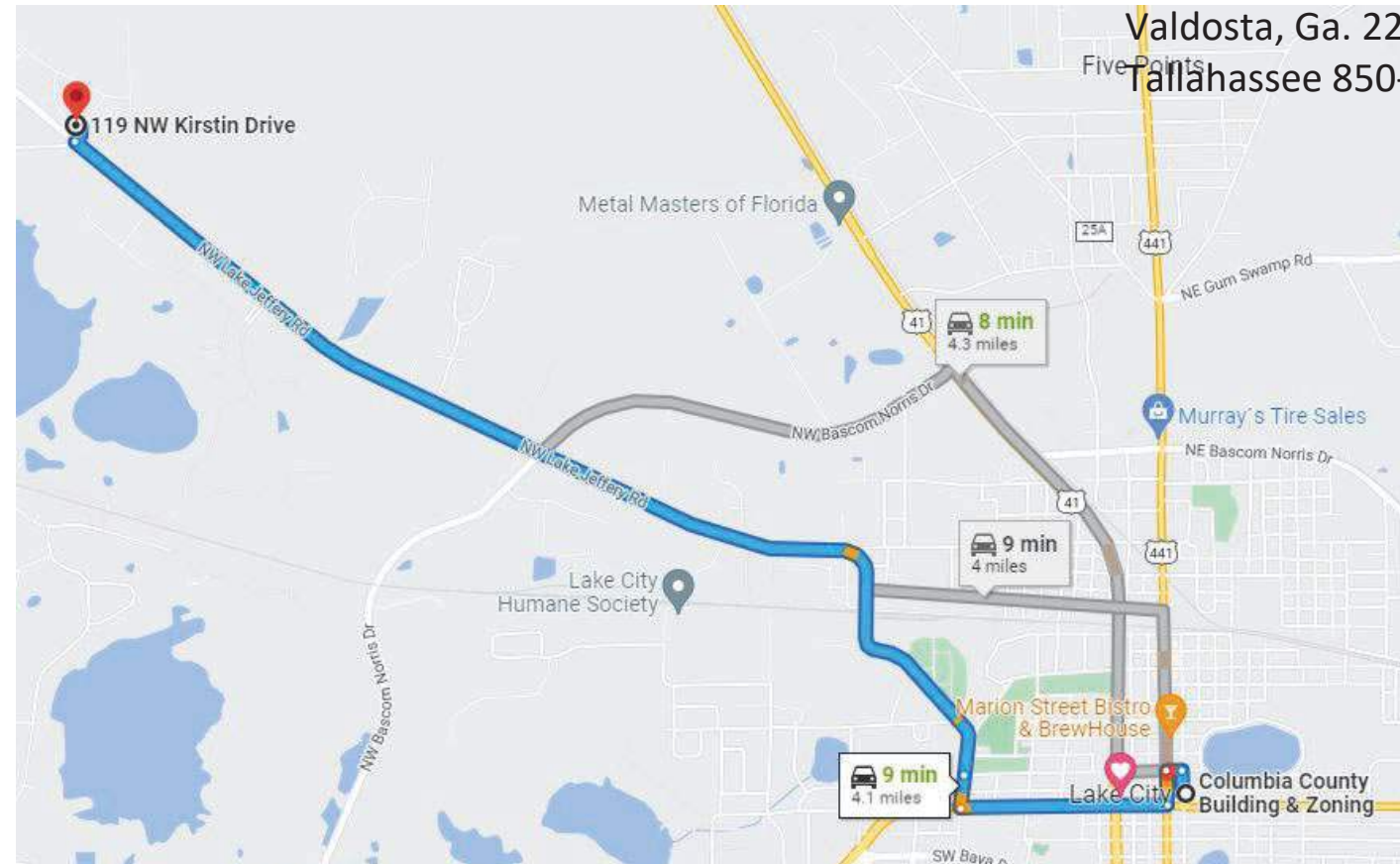
(517) 745-8752

Parcel ID 23-3S-16-02279-133 (8197)

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	Sealed Pool Engineering

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

10/1/2022

My Favorite Pool Builder, Inc.
1956 SW Main Blvd.
Lake City, FL 32025
(386) 269-3304 OF
(386) 965-0066 Cell
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32055
(517) 745-8752

Scale: None Rev
Page 1 of 7

TURN DOWN NOTES

1. Detail is based on NO surcharge behind the Turndown and the Ground away from the Turndown is (>4 to 1)3 Turndown may abut Ribbon Footer and be tied into Footer if Appropriate, with #3 Rebar.
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 ISPSC 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 2019 (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 turndown location.
7. If the base of the turndown does not extend into the old (existing) ground, a 4" Ø pilaster 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 pilaster 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.
10. A screen enclosure is not to be installed on top of any of the depicted turndowns.

Footer Notes

1. If a screen 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. 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.

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

Pump

Pentair 011018 Intelliflo 3HP Variable Speed Pool Pump 2"

Self-Priming

230 volt Phase 1 16 amp with timer

With Dynamic Head 50

750 RPM-GPM Up to 40 Turn over at this speed 4.16 Hours

2,350 RPM-GPM Up to 140 Turn Over at this speed 1.19 Hours

Filter

Pentair Sand Dollar Filters

Tank Diameter	Filter Area Sq. Ft.	Lbs. of Sand Required	Max Working Pressure (PSI)	Vrtl. 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"	3.16	300	50	58"	70	95°F
26"	3.69	350	50	60"	75	95°F

Pentair Clean and Clear

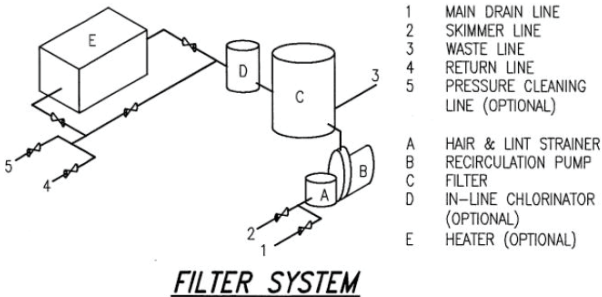
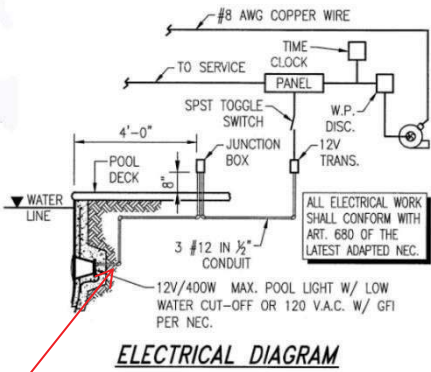
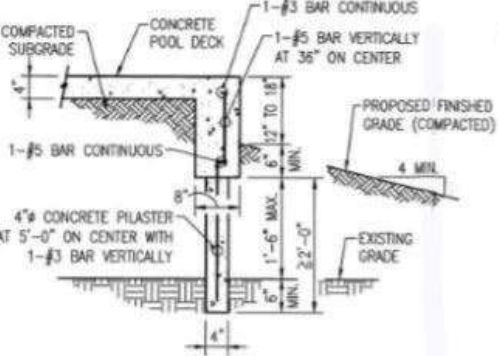
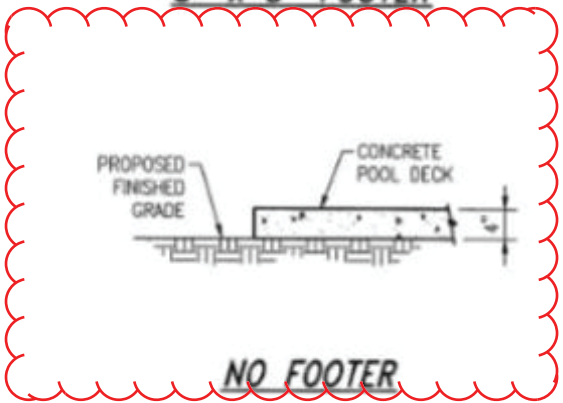
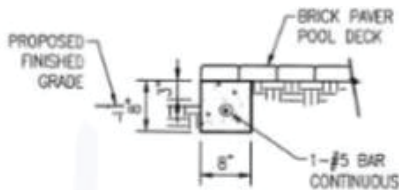
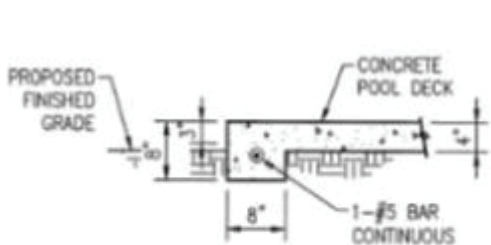
Product #	sq. ft.	Residential Maximum Cartridge Flow Rates				Commercial Maximum Cartridge Flow Rates			
		GPM	GPH	6 hour	8 hour	GPM	GPH	6 hour	8 hour
160314	50	50	3,000	18,000	24,000	19	1,140	6,840	9,120
160315	75	75	4,500	27,000	36,000	28	1,680	10,080	13,440
160316	100	100	6,000	36,000	48,000	38	2,280	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. shown, recommended flow rate for residential is .5 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.

Pentair FNS Plus Filter

Product	Model	Effective Filtration Area (Sq Ft)	Flow Rate ² (GPM)	Turnover Capacity (In Gallons)			D.E. Required (Lbs)	Carton Qty	Carton Wt (Lbs)
				8 Hour	10 Hour	12 hour			
180006	FNSP24	24	48	23,040	28,800	34,560	2.4	1	60
180007 ¹	FNSP36	36	72	34,560	43,200	51,840	3.6	1	70
180008 ¹	FNSP48	48	96	46,080	57,600	69,120	4.8	1	80
180009 ¹	FNSP60	60	120	57,600	72,000	86,400	6	1	90



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10/1/2022
John Duranko, A.R.
103 Willison Rd.
West Palm Beach, FL. 33406
FL. Lic# AR0011649

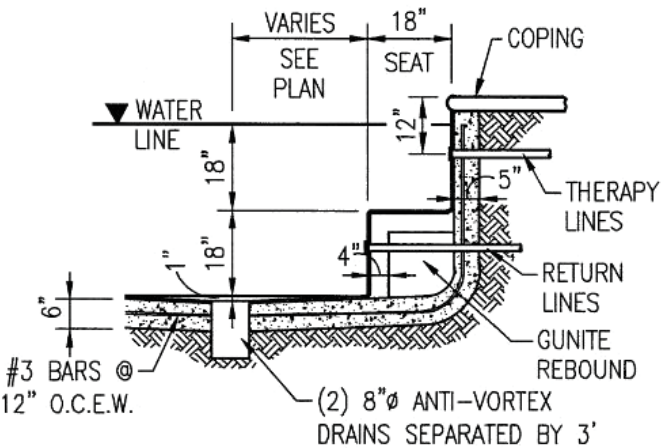
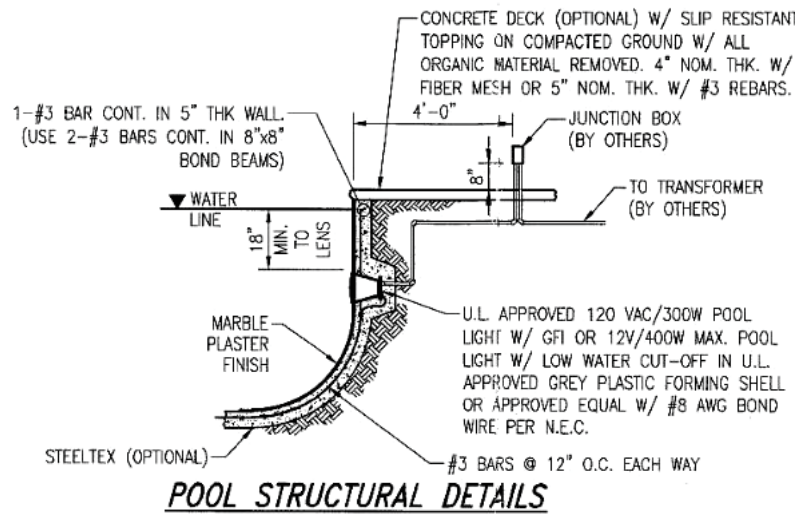
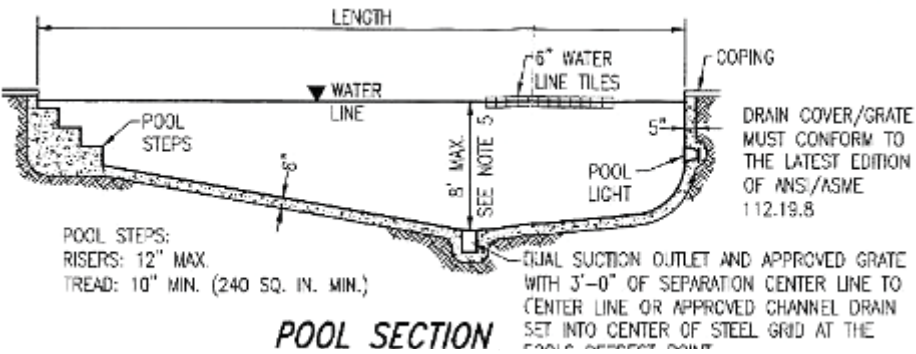
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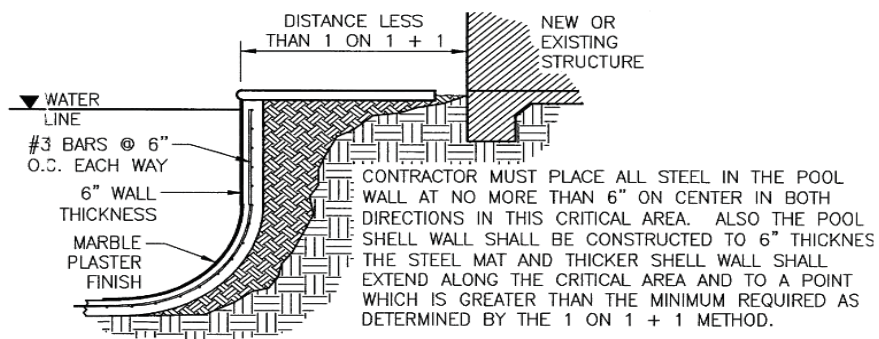
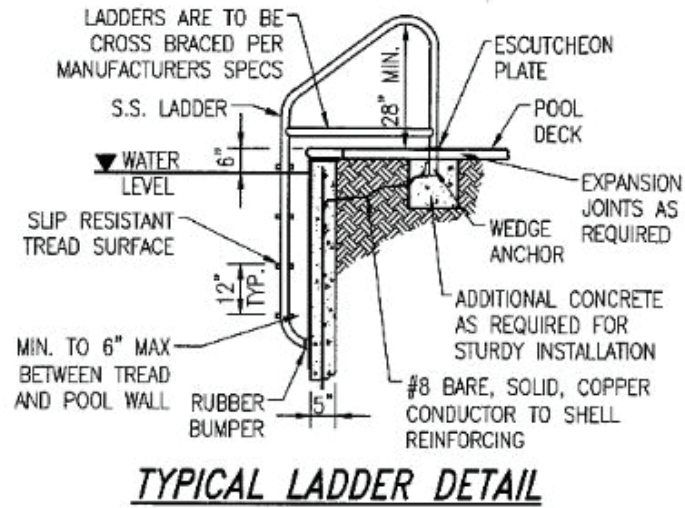
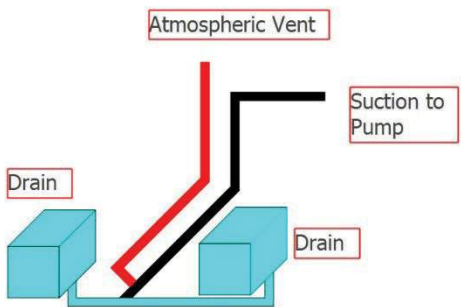
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General Notes

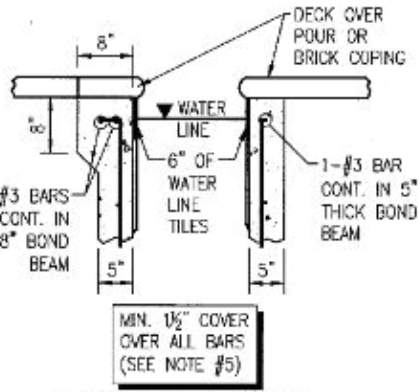
1. For pool plan, size, deck and special details see Contractor's Pool Plan.
2. Pool Walls shall be 5" thick and floors shall be 6" thick and shall be pneumatically applied Concrete with a Compressive Strength of 3,000 psi in 28 days. Concrete Decks shall be 2,500 psi. Concrete construction will conform to ACI Standard 318.
3. **POOL SHALL CONFORM TO REQUIREMENTS OF ISPSC 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 2019 (NEC) AND CHAPTER 42 AND CHAPTER 45 OF THE 6TH EDITION OF THE FBC, 2020, RESIDENTIAL, BEARING THE MARK OF NSF APPROVED UNLESS OTHERWISE NOTED.**
4. All Reinforcing Steel to conform to ASTM 615 Grade 40. Reinforcing shall be #3 bars and 12" on center in each direction, #15' lap joints in walls and floors up to 6'. Where the pool depth is over 6ft (measured vertically down from the Waterline), use #3 bars at 6" on center in each direction in the areas that exceed 6ft in depth.
If Concrete is cast against Bare Earth with a Separation Barrier, the minimum cover shall be 3". With a Barrier (Steelex) between Concrete and Earth, the minimum cover shall be 1½".
5. All Metallic Pool Fittings within 5' of the inside wall and deck reinforcing steel to be bonded to the Pool Reinforcing Steel with #8 AWG Cooper Wire. The #8 Copper Wire to be run internally and externally with the NEC approved PVC Light Conduit from the Light Niche to the Junction Box. Completion of the pool grounding to the Electrical Panel Ground to be by Electrician.
6. Bond all Sheathed Cables, Raceways, Metal Piping and all Fixed Metal Parts not separated by a permanent barrier, if within 5'-0" Horizontally from Water and 12'-0" Vertically of Maximum Water Level.
7. Equipotential Bonding to be accomplished in accordance with Article 680 of the Adopted National Electrical Code 2011 (NEC).
8. Pool or Patio shall bear only on Rock or Clean Sand, which shall be compacted to provide a Structurally Safe Bearing Capacity. Any Unsuitable Material encountered in excavation shall be removed in its entirety and the area shall be backfilled with acceptable material and properly compacted. Where unsuitable Material cannot be removed, the pool must be redesigned.
9. The Contractor must protect Existing Structures from failure by acceptable methods if required. The Engineer accepts no responsibility for the safety of Existing Structures.
10. The Design Engineer assumes no responsibility for pool construction in Easements or Required Setback areas. Pool Contractor and/or Owner shall verify the layout and all dimensions shown prior to construction.
11. Contractor shall determine the location of all Utilities in relation to the Pool and its Equipment and ensure minimum clearances in accordance with Local Regulations and Ordinances.
12. Contractor shall provide adequate Temporary Fencing around the construction area to prevent unauthorized entry into the Pool Area.
13. If a water supply is provided, a minimum 3" Atmospheric Break will be provided.
14. All Structural, Filtration and Electrical details outlined in these drawings also relate to Spa Construction.
15. All Pool and Spa Heaters shall be equipped with an On/Off Switch mounted for easy access to allow the Heater to be Shut Off without adjusting the Thermostat settings and to allow restarting without relighting the Pilot Light.
16. **WARNING!** To empty the Pool for any reason, The Hydrostatic Uplift Pressure must be eliminated. The Owner must consult a Contractor experienced in eliminating Uplift Pressure.



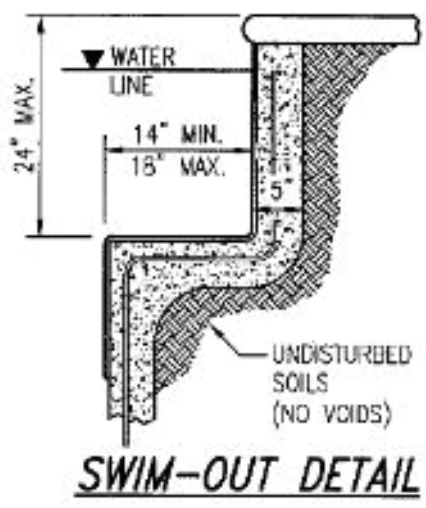
SPA STRUCTURAL DETAILS



TYPICAL WALL AND FLOOR WITHIN ANGLE OF REPOSE



ALTERNATE BEAM FINISH DETAIL



NOTES:

POOL DESIGN CONFORMS TO THE FOLLOWING:
ANSI/NSPI/ISPSC-3, 5, 7, 15
IAPMO REPORT ER 0298
2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL RESIDENTIAL CODE
2011 NATIONAL ELECTRICAL CODE
2012 INTERNATIONAL SWIMMING POOL SPA CODE

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Page 3 of 7

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

Flow Calculations

Pool water volume 5,562 ÷ 360 = 15 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) 35 gpm @ 2000 rpm.

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) 5 (Filter Size) 0 DE (2.0) 15 Sand (15)

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. Programmable controller ☒

Pump Model Pentair 3hp Inteliflow VSF

Heater Model Master Temp 125k

Gas Heater efficiency rating 89 Master Temp 125k Eco Stealth Heat Pump

Heat Pump efficiency C.O.P. 2 2

ANSI 5 & ANSI 7 Compliance Work Sheet

Determine Simplified TDH:

1. Distance from pool to pump in feet: 100 Pipe size suction 2in Pipe Size Return 2in
2. Friction loss (in suction pipe) in (6) 2 Inch pipe per 1 ft. @ 0.06 GPM = 0.12 (from pipe flow/friction loss chart)
3. Friction loss (in return pipe) in (8) 2 Inch pipe per 1 ft. @ 0.10 GPM = 0.2 (from pipe flow/friction loss chart)

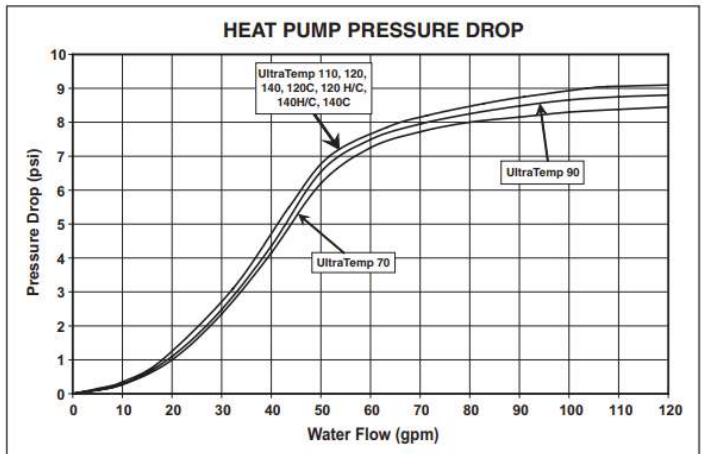
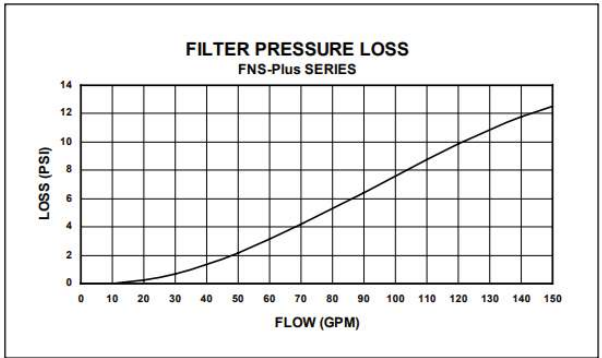
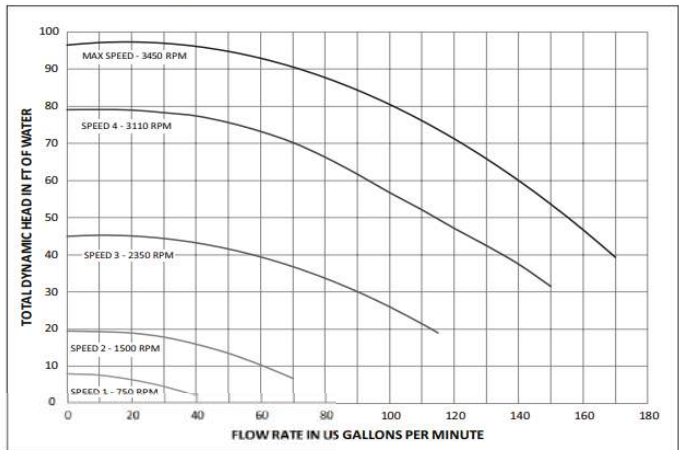
Date	10/1/2022		Suction	12
			Return	20
			Filter	1.8
			Heater	0
Contractor Signature	Digitally signed by Steve Cronin Date: 2022.10.05 14:38:02 -04'00'	Terry Milliman		
CPC1459058		Owner Name		
Contractors Cert #		119 NW Kirstin Dr	TDH in Piping	32
386-965-0066		Lake City, FL 32055	Filter/Heater loss in TDH	1.8
Contractors Tele#		Address	All other Losses Fittings and Values	8
		Scale None		
			Total Dynamic Head (TDH)	41.8

Velocity - Feet Per Second					
Pipe Size	6 FPS		8 FPS		10 FPS
1.5"	37 gpm	0.08'	50 gpm	.14'	62 gpm .21'
2"	62 gpm	0.06'	82 gpm	.10"	103 gpm .16'
2.5"	88 gpm	0.05'	117 gpm	.08'	148 gpm .13'
3"	136 gpm	0.04'	181 gpm	.07'	227 gpm .10'
4"	234 gpm	0.03'	313 gpm	.05'	392 gpm .07"
6"	534 gpm	0.02'	712 gpm	.03'	

SECTION IV. TECHNICAL DATA (cont'd.)

B. FNS® PLUS FLOW RATES

Pump Performance Curves (3HP IntelliFlo Pumps)



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Lake City, FL 32055
Contractor; My Favorite Pool Builder,
Inc. CPC1459058 Steve Cronin
386-965-0066 steve@mfpblc.com

Distance from Pool water line to
property line.
15 FT to North
93 FT to South
41 FT to East
80 FT to West

20 feet to septic tank and over 20 to
well
Power Co. FPL Electric
Power to house is run under ground
and is more than 40.5' away from
pools waters edge

NO Glass with 60IN Of pools water
3" Deck drains out to both sides
Pool deck water will Drain away from
pool onto ground. No change to
current water drainage direction



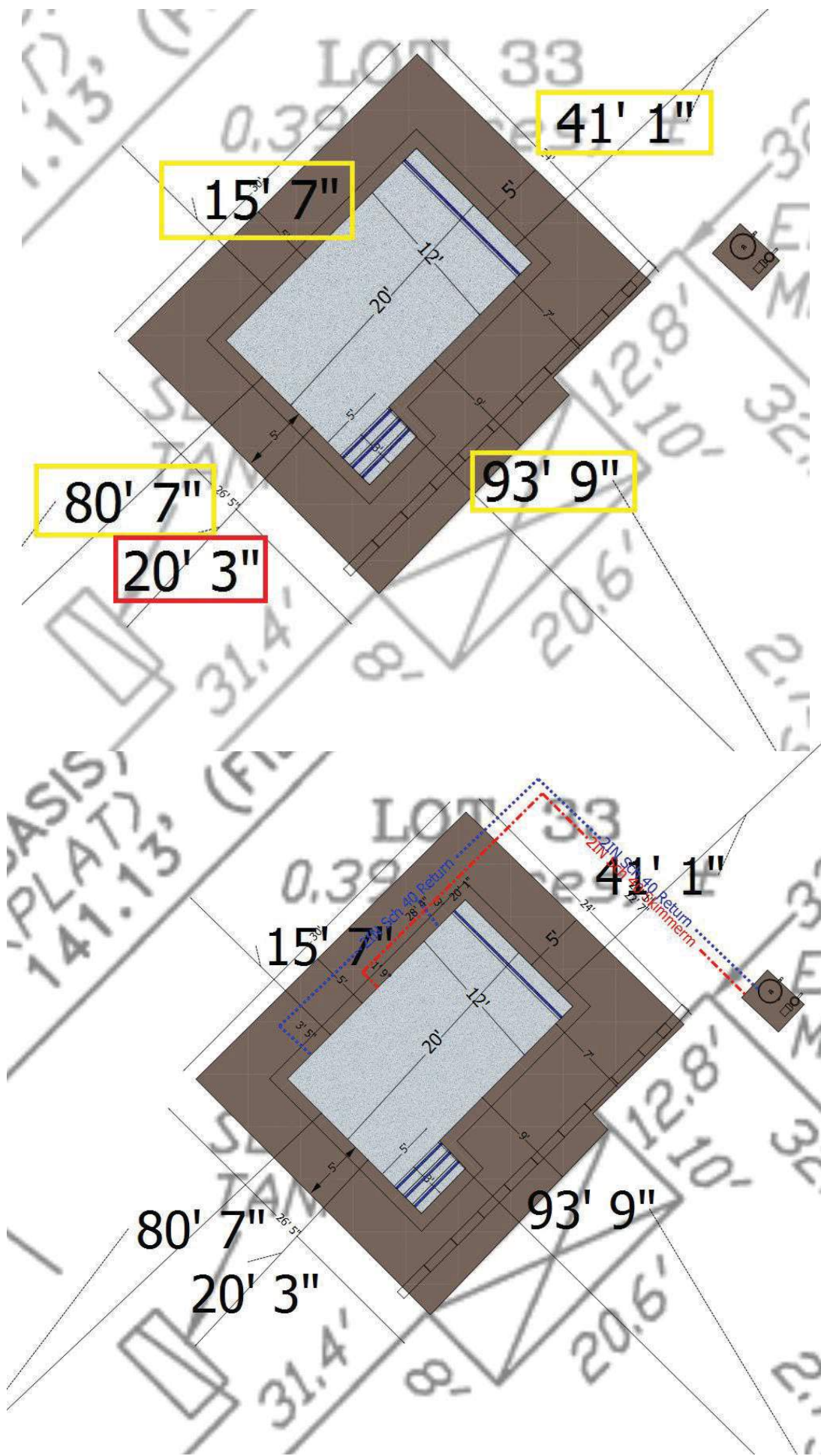
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Distance from Pool water line to property line.
15 FT to North
93 FT to South
41 FT to East
80 FT to West

20 feet to septic tank and over 20 to well

Power Co. FPL Electric
Power to house is run under ground and is more than 40.5' away from pools waters edge

NO Glass with 60IN Of pools water
3" Deck drains out to both sides
Pool deck water will Drain away from pool onto ground. No change to current water drainage direction



Pools	
Count:	1
Envelope:	20' 1" x 15' 1"
Perimeter:	70' 1"
Area:	255.75 ft ²
Int Surface Area:	485.17 ft ²
Depth:	2' 6" to 5'
Height:	0"
Volume:	5,562 gallons
Drains:	0
Lights:	0
Spillover Length(s):	
Spillover Mtrl:	
Interior Finish:	Pool Interiors,...
Tile Line:	+6" 70' 1"
Tile Material:	Tile, Scale 300%
Exterior Facing:	0 ft ²
Coping Area:	74.06 ft ²
Coping Interior:	70' 1"
Coping Material:	Concrete, Deck...
Raised Beams:	
Raised Beam Mtrl:	
Steps/Benches:	4
Step Linear Ft:	27' 2"
Step Perimeter:	63' 3"
Step Area:	33.14 ft ²
Trim Tile:	27' 1" at +2"
Trim Tile Material:	Tile, Scale 300%
Concrete:	14.7 yards ³
Rebar:	2631' 1"

Plumbing and Light Details
All Pipe is Sch 40

- 2IN Skimmer -----
- 2 IN Returns
- 12 Volt Color Led Light —
-2IN Spa Return
- 2IN Spa Main Drain -----

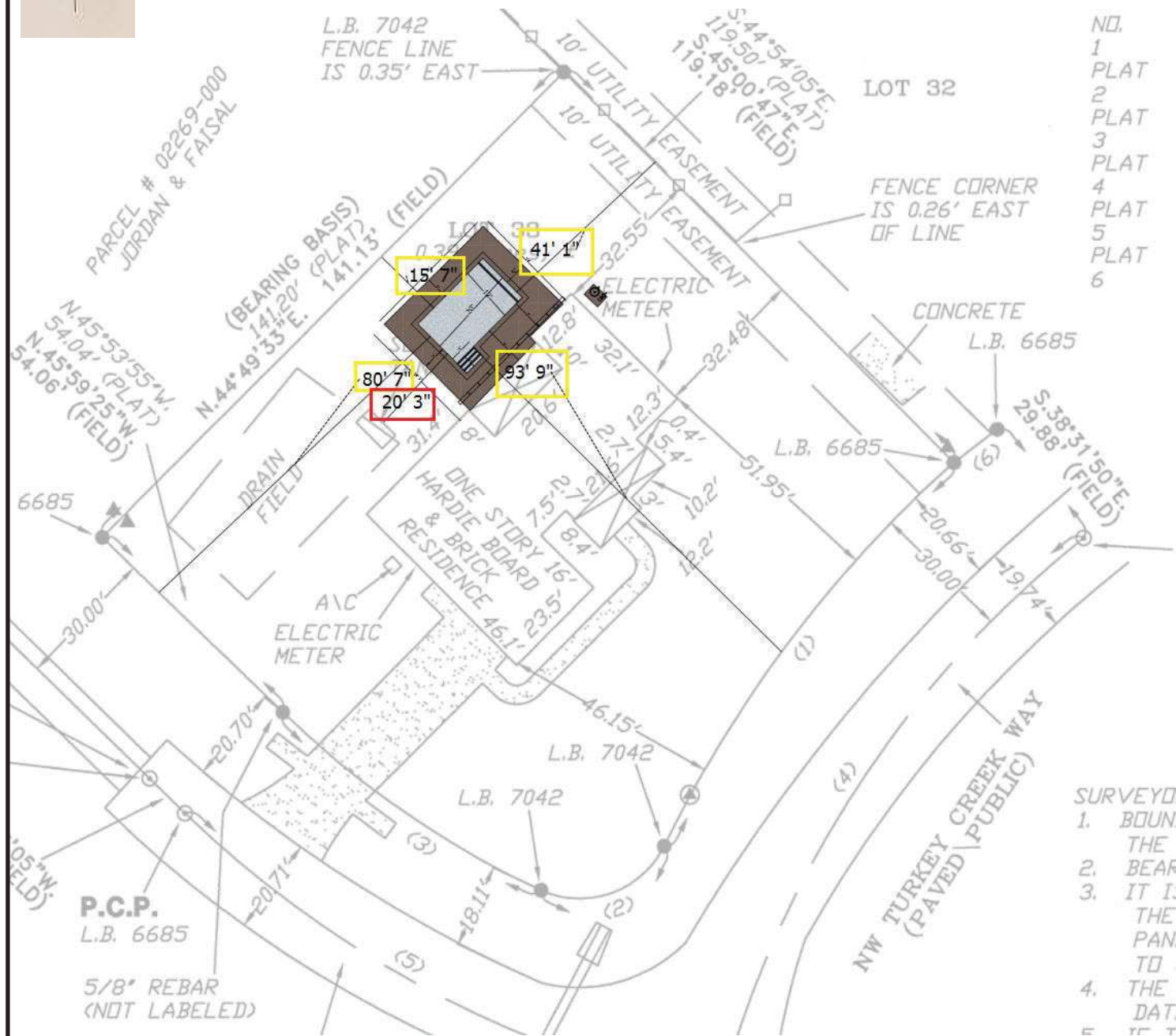
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41 FT to East
80 FT to West

20 feet to septic tank and over 20 to
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current water drainage direction

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Perimeter:	70' 1"
Area:	255.75 ft ²
Int Surface Area:	485.17 ft ²
Depth:	2' 6" to 5'
Height:	0"
Volume:	5,562 gallons
Drains:	0
Lights:	0
Spillover Length(s):	
Spillover Mtr:	
Interior Finish:	Pool Interiors,...
Tile Liner:	+6' 70' 1"
Tile Material:	Tile, Scale 300%
Exterior Facing:	0 ft ²
Coping Area:	74.06 ft ²
Coping Interior:	70' 1"
Coping Material:	Concrete, Deck...
Raised Beams:	
Raised Beam Mtr:	
Steps/Benches:	4
Step Linear Ft:	27' 2"
Step Perimeter:	63' 3"
Step Area:	33.14 ft ²
Trim Tiler:	27' 1" at +2"
Trim Tile Material:	Tile, Scale 300%
Concrete:	14.7 yards ³
Rebar:	2631' 1"

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