

Job Address : 600 FOX ST, LONGBOAT KEY, FL 34228

Contractor: Frank Agnelli

Company Name: Agnelli Pools and Construction

license Number: CPC1457571

Contractor Address: 7411 Manatee Ave W Ste 200 Bradenton FL 34209

Contractor Email: frankagnelli@gmail.com

1. Cover sheet with design criteria:
 - The Florida Building Code (FBC) 2023 Design Criteria
 - Wind Load 150 MPH Risk Factor II
 - Exposure Category D



2/17/2026, 11:45:17 AM

BR-POOL-26-0007

Debra Klahr



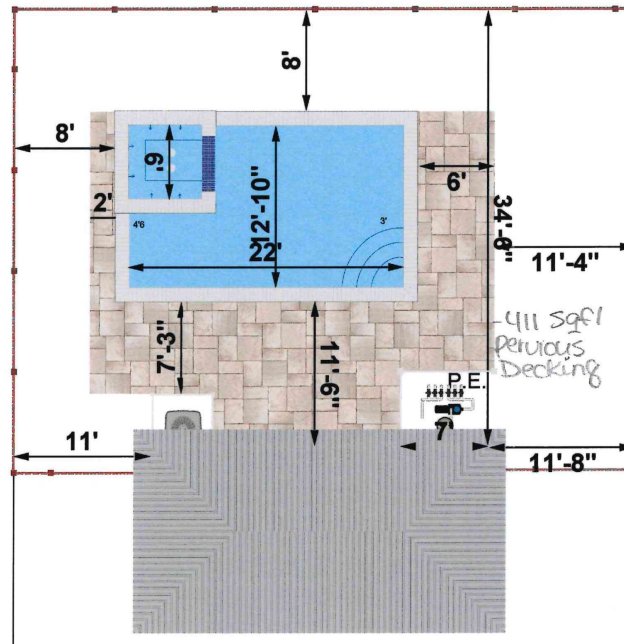
2/17/2026, 11:48:19 AM
BR-POOL-26-0007
Debra Klahr

MECHANICAL,
ELECTRICAL AND
PLUMBING REVIEWS
WILL BE DEFERRED TO
FIELD INSPECTORS

2/17/2026, 11:48:28 AM
BR-POOL-26-0007



2/13/2026, 11:40:51 PM
BR-POOL-26-0007
Tate Taylor



Fence by other
w/ self locking and self closing
gates per code.

Pool at Grade
Spa raised 12"
and fulling within the
pool lines

POOL CONSTRUCTION DETAILS

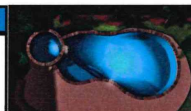
1. POOL AREA: 286 PERIMETER: 180 GALLONS: 0
2. POOL SIZE: 22' x 10' DEPTHS: 3' x 0' x 4' 6"
3. WALL TYPE: Concrete FLOOR: Conc. STEPS: Conc.
4. POOL INTERIOR: TBD (Plaster / Quartz / Pebble)
5. WATERLINE TILE: 6" x 6" MFR #: TBD
6. COPING TYPE: Bullnose Color: TBD
7. DECKING TYPE: TBD Color: TBD
8. DECK DRAINS: 001 Type: 000 Type: 000
9. RAISED BM: 6' 00" 12' 00" 18' 00" 24' 00" 30' 00" 36' 00"
10. STEPS: 3 BENCHES: 0 SUNSHELF: 0 SWIMOUT: 0
11. STEP RAILS: 0 LADDER: 0 BB SLEEVE: 0 UMB SLV: 0
12. POOL CLEANER: VAC / Infloor Model: TBD
13. DECK JETS: 0 BENCH JETS: 0 BUBBLERS: 0 TBD
14. WATER FEATURES: N/A
15. POOL SKIMMER: 1 RETURNS: 3 DRAINS: 2 VAC: 0
16. POOL FILTER: Hayward Swimclear SIZE: C200S
17. PUMP 1: Hayward Tristar VS V: 950 SPD: V HP: 0
18. PUMP 2: V: SPD: HP:
19. PUMP 3: V: SPD: HP:
20. HEATER TYPE: Electric Hayward Summit BTU: 140K
21. SANITIZER: SALT: 1 Ozone: 0 Other: N/A
22. POOL LIGHTS: 120v: 0 12v: 2 Type: LED
23. POOL TIMER: Y TYPE: N/A Remote: N
24. OTHER AUTOMATION: N/A J.Valves: 00
25. PRE-GRADE: N LEAVE DIRT: 000 DIRT NEEDED: 000
26. CHILD BARRIER TYPE: Alarms
27. SURVEY BY: TBD Complete: N
28. JOB ACCESS: OPEN: Y GATE: Y WIDTH: 00 Remove: 0
29. HOME BUILT: Y OCCUPIED: Y Gate Code: 0000 PETS: N

SPA CONSTRUCTION DETAILS

1. SPA SIZE: 6' x 6' DIA: 24 DEPTH: DAM Wall: 0
2. WALL TYPE: Raised 12' STEPS: 0 RAILS: 0 BENCH: 0
3. SPA INTERIOR: Same as pool TILE: Same as pool
4. SPA COPING: Same as pool Color: 0
5. SKIMMER: 0 RETURNS: 0 DRAINS: 2 JETS: 6 VAC: 0
6. SPA FILTER: Same as pool SIZE: 0
7. SPA PUMP: Same as pool V: 0 SPD: 0 HP: 0
8. SPA HEATER: Same as pool BTU: 0
9. SANITIZER: 0
10. SPA LIGHT: 120v: 0 12v: 1 Type: Color LED
11. SPA TIMER: 0 TYPE: 0 Remote: 0
12. OTHER AUTOMATION: 0 J.Valves: 0

JOB RESIDENCE

600 Fox St
Longboat Key, FL



BUILDER INFORMATION

Agnelli Pools & Construction, LLC.
7411 Manatee Ave W. suite 200
Bradenton FL 34209
CPC1457571~CBC1251327

GENERAL NOTES:

ALL POOLS, AND SPAS SHALL CONFORM WITH THE 2023 FLORIDA BUILDING CODE, THE 2023 FLORIDA STATUTES, CHAPTER 515, RESIDENTIAL SWIMMING POOL SAFETY ACT, THE VIRGINIA GRAEIME BACKER POOL & SPA SAFETY ACT, ALONG WITH ALL APPLICABLE COUNTY OR CITY CODES AND ORDINANCES.

ALL SUCTION OUTLETS SHALL BE PROVIDED WITH A COVER THAT HAS BEEN TESTED AND ACCEPTED BY A RECOGNIZED TESTING FACILITY AND COMPLYING WITH ANSI/ASME A112.19.8 PERFORMANCE STANDARD.

ALL POOLS AND SPAS SHALL BE REQUIRED TO HAVE A BACKUP SYSTEM WHICH SHALL PROVIDE VACUUM RELIEF SHOULD THE GRATE COVERS BE MISSING. ALTERNATE VACUUM DEVICES INCLUDE:
APPROVED VENT PIPING,
APPROVED VACUUM RELEASE SYSTEM,
OTHER APPROVED MEANS OR DEVICES.

ALL POOL PIPING SHALL BE TESTED AND PROVED TIGHT TO THE SATISFACTION OF THE ADMINISTRATIVE AUTHORITY, UNDER A STATIC WATER OR PRESSURE TEST OF NOT LESS THAN 35 PSI FOR 15 MIN.

OUTDOOR SWIMMING POOLS SHALL BE PROVIDED WITH A BARRIER COMPLYING WITH THE 2023 FLORIDA STATUTES CHAPTER 515, RESIDENTIAL POOL AND SAFETY ACT, AND SECTION R4101.17 OF THE 2023 RESIDENTIAL FLORIDA BUILDING CODE.

APPROVED MANUFACTURED INLET FITTINGS FOR THE RETURN OF RECIRCULATING POOL WATER SHALL BE PROVIDED ON THE BASIS OF AT LEAST ONE PER 300 SQUARE FEET OF SURFACE AREA AND ONE FOR EVERY 20 GPM OF THE RECIRCULATED RATE. SUCH INLET FITTINGS SHALL BE DESIGNED AND CONSTRUCTED TO INSURE THE ADEQUATE SEAL TO THE POOL STRUCTURE AND SHALL INCORPORATE A CONVENIENT MEANS OF SEALING FOR PRESSURE TESTING OF THE PIPING, WHERE MORE THAN ONE INLET IS REQUIRED, THE SHORTEST DISTANCE BETWEEN ANY TWO REQUIRED INLETS SHALL BE AT LEAST 10 FEET.

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

ALL DIMENSIONS SHOWN FOR THE NEW POOL ARE TO THE EXTERIOR OF THE POOL CONSTRUCTION

CONTRACTOR SHALL OBTAIN AND COMPLY WITH APPROVED C.C.C.L. PERMIT FINAL ORDER FROM THE F.D.E.P. FOR SWIMMING POOL CONSTRUCTION, AS REQUIRED.

NO VEGETATION IS EXISTING IN THE AREA OF THE PROPOSED SWIMMING POOL. THIS CONSTRUCTION WILL NOT RESULT IN THE LOSS OF STABILIZING NATIVE VEGETATION.

FILL FROM POOL EXCAVATION TO BE USED FOR THE PAVER DECK AND PAVER DRIVEWAY OR BE RELOCATED ON NEARBY PROPERTY SEAWARD OF THE COASTAL CONSTRUCTION CONTROL LINE.

CONSTRUCTION NOTES:

ALL SUCTION OUTLET COVERS SHALL BE COMPLIANT WITH ASME/ANSI A112.19-2007. IF DUAL MAIN DRAINS ARE USED EA. DRAIN COVER SHALL BE RATED FOR 100% OF THE SYSTEM FLOW RATE. IF UN-BLOCKABLE CHANNEL DRAINS ARE USED THE MANUFACTURERS LISTED SUMP MUST BE USED.

ALL POOL PIPING SHALL BE SCH. 40 PVC WITH NSF APPROVED STAMP FOR DRINKING WATER USE.

ALL REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS. SPLICE LOCATIONS SHALL BE STAGGERED WITH BARS LAPPED 15" MINIMUM.

ALL ELECTRICAL WIRING AND EQUIPMENT SHALL COMPLY WITH CHAPTER 27 OF THE FBC 2023 AND NFPA 70 2023, ARTICLE 680 (N.E.C.). PROVIDE BONDING OF ALL EQUIPMENT, HANDRAILS AND LIGHTS TO POOL REINFORCING.

ADDITIONAL NOTES

POOL INSTALLATION SHALL BE BY A QUALIFIED AND LICENSED (APPROVED BY LOCAL BUILDING DEPARTMENT) POOL CONTRACTOR. THE INSTALLATION SHALL CONFORM TO A LOCAL BUILDING CODES, ie. PERMITS SPECIFICATIONS, CODES, RULES, RULES, INSPECTION, WORKMANSHIP, ETC.

STEPS OR A LADDER SHALL BE PROVIDED AT THE SHALLOW END OF THE POOL.

FINAL ELECTRICAL AND BARRIER CODE INSPECTIONS SHALL BE COMPLETED PRIOR TO FILLING THE POOL WITH WATER.

ELECTRICAL REQUIREMENTS:

INSTALL LOW VOLTAGE LIGHT AS PER NEC 680.

WIRING AND BONDING AND ALL ELECTRICAL TO COMPLY WITH CHAPTER 27, FLORIDA BUILDING CODE FBC 2023.

NO OUTLET OR OVERHEAD POWER WITHIN 10' IF WITHIN 15' PROTECT BY GFI. TRANSFORMER MIN. 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.

AN EQUIPOTENTIAL BONDING GRID MUST COVER THE CONTOUR OF THE PERMANENTLY INSTALLED POOL AND SPA UNDER THE DECK, AN UNDERGROUND BONDING CONDUCTOR MADE OF A SINGLE #8 AWG BARE COPPER WIRE BURIED TO A MINIMUM DEPTH OF 4 TO 6 INCHES BELOW SUBGRADE, AND 18 TO 24 INCHES FROM THE INSIDE OF THE WALL OF A SWIMMING POOL OR SPA, AND BONDED TO THE POOL STEEL WITH #8 AWG BARE COPPER WIRE AT FOUR EQUAL PLACES ALONG THE PERIMETER OF THE POOL. FOR POOL WATER BONDING SEE 2023 NEC 680.26-C

ALL PUMPS AND ALL METALLIC PARTS WITHIN 5 FEET OF POOL MUST BE GROUNDED TO THE POOL STEEL WITH #8 COPPER GROUND WIRE.

TIME CLOCKS SHALL BE INSTALLED ON PRIVATE POOLS SO THAT THE PUMP CAN BE SET TO RUN DURING OFF-PEAK ELECTRICAL DEMAND PERIODS AND CAN BE SET FOR THE MAXIMUM TIME NECESSARY TO MAINTAIN THE WATER IN A CLEAR AND SANITARY CONDITION IN KEEPING WITH APPLICABLE HEALTH STANDARDS.

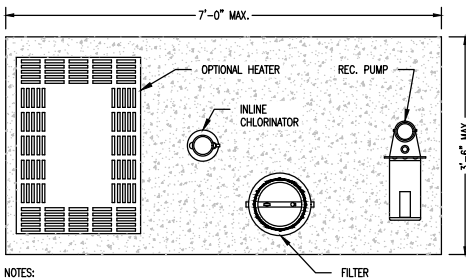
ALL POOL AND SPA HEATERS SHALL BE EQUIPPED WITH AN ON/OFF SWITCH MOUNTED FOR EASY ACCESS TO ALLOW THE HEATERS TO BE SHUT OFF WITHOUT ADJUSTING THE THERMOSTAT SETTING, AND TO ALLOW RESTARTING WITHOUT RELIGHTING THE PILOT LIGHT.

LIGHTING SCHEDULE				
FIXTURE	QUANTITY	BULB TYPE & LUMENS	MOUNT	MOUNTING HEIGHT
PENTAIR AMERLITE, #78438100, 300 WATT, 12 VOLT UNDERWATER LIGHT, WITH STAINLESS STEEL RM	1	300 WATT, 12 VOLT, INCANDESCENT FLOODLAMP (5,000 LUMENS)	PENTAIR LARGE STAINLESS STEEL NICHE FOR FIBERGLASS INSTALLATION	18" MINIMUM BELOW POOL WATER LEVEL
INTERIOR SWIMMING POOL LIGHTS SHALL BE TURNED OFF WHILE THE POOL IS NOT IN USE DURING SEA TURTLE NESTING SEASON (MAY 1 THROUGH OCTOBER 31). THE USE OF AN AUTOMATIC TIMER IS ACCEPTABLE.				

DIRECT OR INDIRECT CONNECTIONS SHALL NOT BE MADE BETWEEN ANY STORM DRAIN, SEWER, DRAINAGE SYSTEM, SEEPAGE PIT, UNDERGROUND LEECHING PIT, OR SUBSOIL DRAINAGE LINE, AND ANY LINE CONNECTED TO THE SWIMMING POOL, UNLESS APPROVED BY THE ADMINISTRATIVE AUTHORITY

THE ENGINEER SHALL NOT BE HELD LIABLE FOR:

- FAULTY MATERIALS AND CONSTRUCTION
- INADEQUATE OR IMPROPER SUPERVISION OF CONSTRUCTION
- IMPROPER POOL MAINTENANCE AFTER CONSTRUCTION.

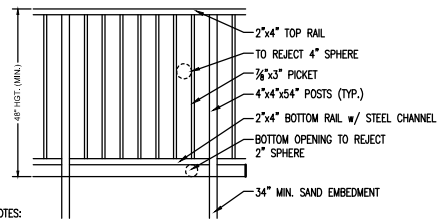


NOTES:

1. CONCRETE PAD TO BE 4" THICK (2,500 PSI MIN.)
2. POOL EQUIPMENT SHALL NOT BE WITHIN A 4 FOOT RADIUS OF POOL BARRIER FENCE TOP.
3. ALL EQUIPMENT SHALL COMPLY WITH ANSI/NSF 50.
4. HEATER SHALL HAVE A READILY ACCESSIBLE ON-OFF SWITCH, MOUNTED ON THE OUTSIDE AND CAN BE USED WITHOUT CHANGING THE THERMOSTAT SETTING.

TYPICAL FILTER LAYOUT

NOT TO SCALE

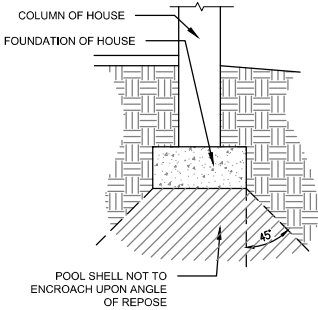


NOTES:

1. COVERS USED TO SATISFY RESIDENTIAL SWIMMING BARRIER REQUIREMENTS MUST COMPLY WITH ASTM F 1346.
2. THE OUTSIDE BARRIER SHALL NOT CONTAIN ANY PROTRUSIONS, HAND AND FOOTHOLDS OR ANY OTHER DISTINGUISHING FEATURE TO ALLOW OR AID IN CLIMBING.
3. ACCESS GATES SHALL BE SELF CLOSING AND EQUIPPED WITH A SELF LATCHING LOCKING DEVICE AT A HEIGHT OF MINIMUM 54".
4. ACCESS GATE SHALL OPEN OUTWARD AWAY FROM POOL.
5. ALL FIRST FLOOR DOORS AND WINDOWS LESS THAN 48" ABOVE FINISHED FLOOR PROVIDING DIRECT ACCESS TO THE POOL FROM HOME SHALL BE EQUIPPED WITH AN EXIT ALARM COMPLYING WITH UL 2021.

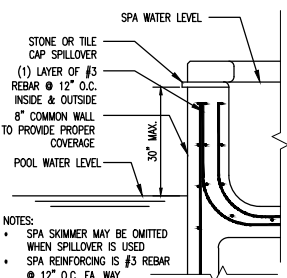
TYPICAL BARRIER DETAIL

NOT TO SCALE



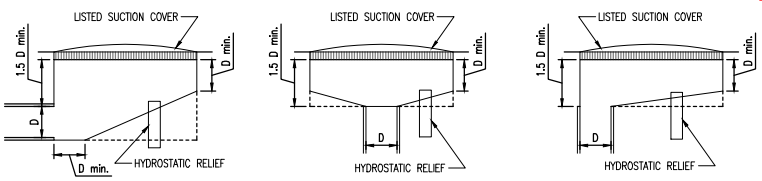
ANGLE OF REPOSE DETAIL

NOT TO SCALE



POOL / SPA COMMON WALL

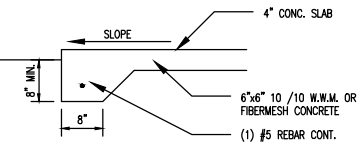
NOT TO SCALE



FIELD BUILT SUMP DETAILS

NOT TO SCALE

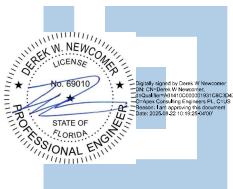
PIPE FLOW AT GIVEN VELOCITY (GPM)				
PIPE	6 FPS	8 FPS	10 FPS	
1"	16	22	27	
1.5"	38	51	64	
2"	63	84	105	
2.5"	90	119	149	
3"	138	184	230	
4"	238	317	397	
6"	540	720	900	



- IF FIBERMESH CONCRETE IS USED FOR POOL DECK THEN A DECK TOPPING IS REQUIRED
- ALL REINFORCING STEEL TO COMPLY WITH ASTM 615 GRADE 40
- FOOTER SIZE MAY VARY FOR SCREEN ENCLOSURES

DECK FOOTER DETAIL

NOT TO SCALE



PEX
Consulting Engineers PL
Derek W. Newcomer, PE #69010
16890 TOLEDO BLADE BLVD.
PORT CHARLOTTE, FL 33954
TEL (841) 365-1900 / FAX (880) 365-4041
DEREK@APEXENGINEER.COM

Pool Engineering
Agnelli Master Set
Date: 08-11-2023 Job No.: N23-314
Drawn by: MDB Scale: AS NOTED
WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THESE DRAWINGS TO AVOID MISTAKES, THE DESIGNER CANNOT GUARANTEE AGAINST HUMAN ERROR. PRIOR TO THE COMMENCEMENT OF ANY WORK, CONTRACTORS/OWNER MUST VERIFY ALL CONDITIONS AND DIMENSIONS AT JOB SITE. THE CONTRACTOR/OWNER SHALL REPORT ALL DISCREPANCIES BETWEEN DRAWINGS AND EXISTING CONDITIONS TO THE DESIGNER PRIOR TO COMMENCING WORK. © 2014 APEX C.E.

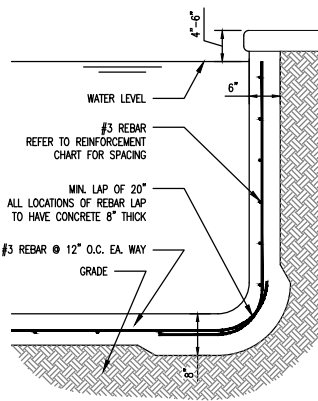
S.1



2/17/2026, 11:43:46 AM
BR-POOL-26-0007
Debra Klahr



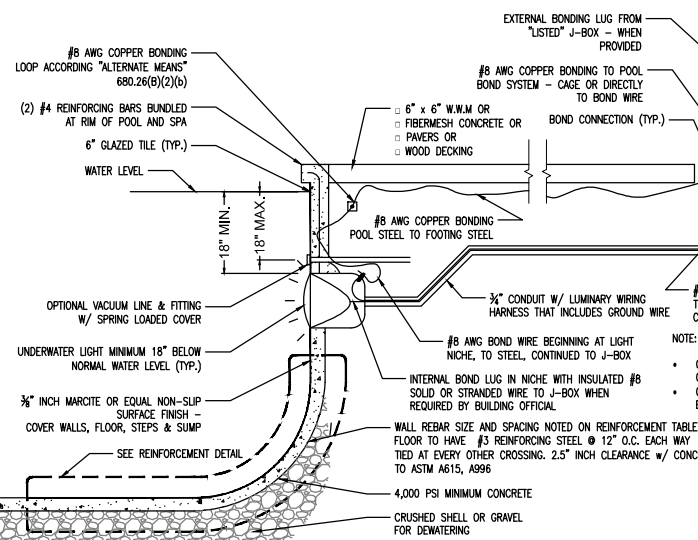
2/17/2026, 11:43:56 AM
BR-POOL-26-0007



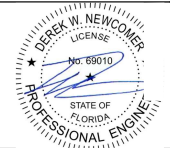
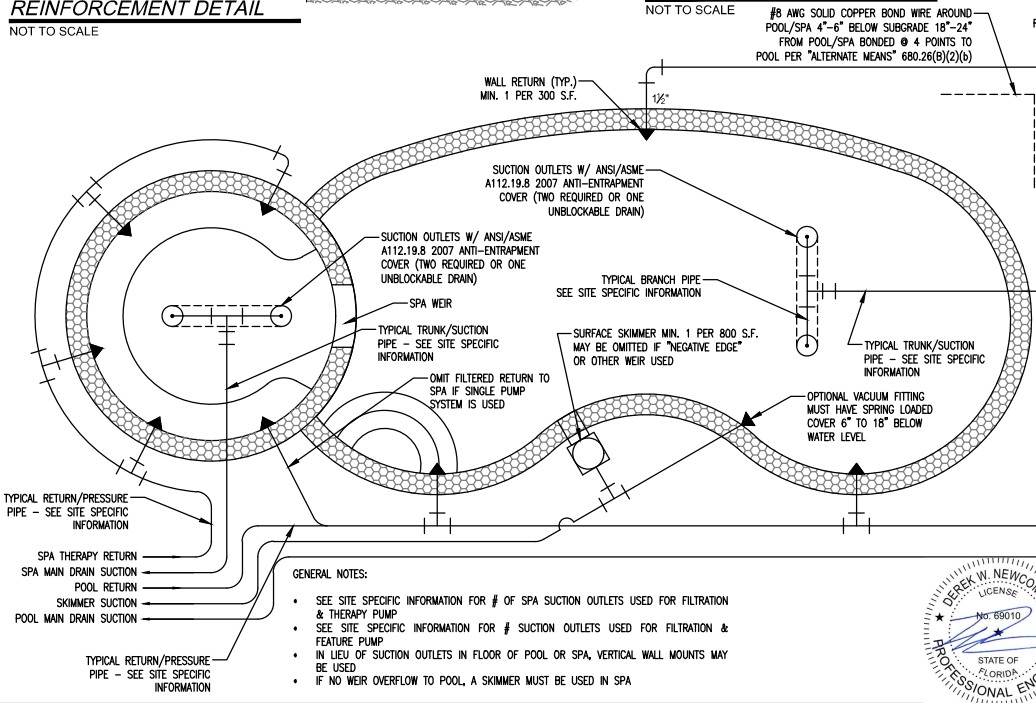
REINFORCEMENT CHART

WALL HGT.	VERT. REBAR	HORIZ. REBAR
4'-0"	#3 @ 12" O.C.	#3 @ 12" O.C.
5'-0"	#3 @ 12" O.C.	#3 @ 12" O.C.
6'-0"	#3 @ 8" O.C.	#3 @ 12" O.C.
7'-0"	#4 @ 8" O.C.	#4 @ 12" O.C.
8'-0"	#4 @ 8" O.C.	#4 @ 12" O.C.

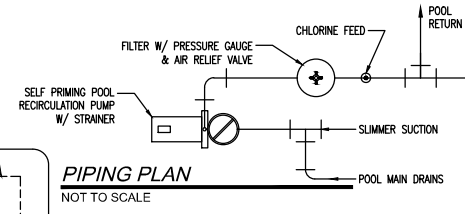
REINFORCEMENT DETAIL
NOT TO SCALE



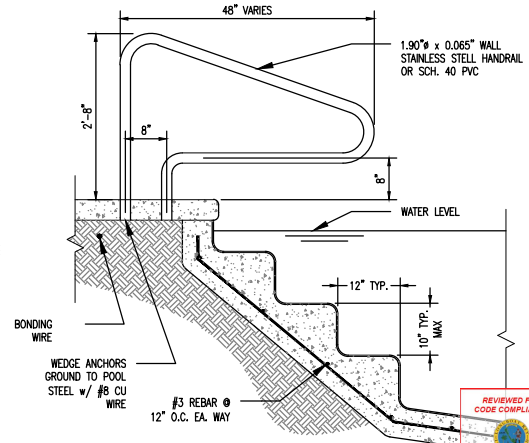
ENLARGED POOL SECTION
NOT TO SCALE



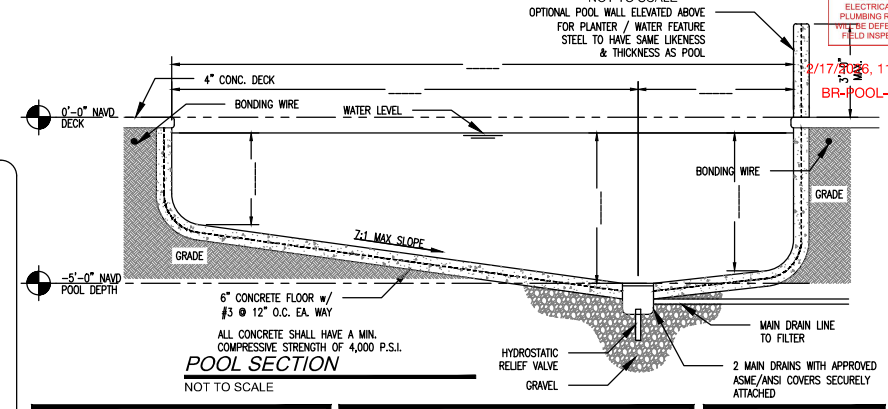
ELECTRICAL DIAGRAM
NOT TO SCALE



STAIR / HANDRAIL DETAIL
NOT TO SCALE



SINGLE PUMP PIPING PLAN
NOT TO SCALE



APEX
Consulting Engineers PL

DEREK W. NEWCOMER, PE #69010
16890 TOLEDO BLADE BLVD.
PORT CHARLOTTE, FL 33854
TEL (841) 365-1900 / FAX (880) 365-4041
DEREK@APEXENGINEER.COM

SEAL OF AUTH. #28488

Pool Engineering
Agnelli Master Set

Date: 08-11-2023 Job No.: N23-314

Drawn by: MDB Scale: AS NOTED

WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THESE DRAWINGS TO AVOID MISTAKES, THE DESIGNER CANNOT GUARANTEE AGAINST HUMAN ERROR. PRIOR TO THE COMMENCEMENT OF ANY WORK, CONTRACTORS MUST VERIFY ALL CONDITIONS AND DIMENSIONS AT JOB SITE. THE CONTRACTOR/OWNER SHALL REPORT ALL DISCREPANCIES BETWEEN DRAWINGS AND EXISTING CONDITIONS TO THE DESIGNER PRIOR TO COMMENCING WORK. © 2014 APEX C.E.

S.2