

GENERAL NOTES

1. POOL SHALL BE CONSTRUCTED IN ACCORDANCE WITH LAC TITLE 51 PART XXIV.
2. UNDER WATER SEAT BENCHES IN POOL ARE TO BE CONSTRUCTED IN ACCORDANCE WITH LAC TITLE 51 PART XXIV. VARIANCE CRITERIA FOR THE UNDERWATER SEAT BENCH IN THIS APPLICATION REQUIRES 6 TO 20 INCHES OF WATER DEPTH OVER THE BENCH, AND A PROJECTION DEPTH OF 14 TO 18 INCHES FROM THE POOL WALL. THE EDGE OF THE BENCH WILL HAVE A 1" ROUND WITH DARK CONTRASTING 2"x2" SLIP RESISTANT TILE TO INDICATE THE EDGE OF BENCH.
3. ALL POOL STEP CORNERS OF THE TREADS SHALL RECEIVE A 1" ROUNDED EDGE WITH 2"x2" DARK CONTRASTING, SLIP RESISTANT TILE.
4. BASED ON POOL SURFACE AREA, VOLUME, FLOW RATE, AND TURNOVER RATE, RETURNS, SKIMMERS, MAIN DRAINS, POOL LIGHTING ARE TO BE PROVIDED IN THE QUANTITIES REQUIRED IN ACCORDANCE WITH LAC TITLE 51 PART XXIV.
6. FRESH WATER SUPPLY LINE IS TO BE PROVIDED TO THE AUTOFILL SUPPLY LINE, AND BE CONTROLLED BY THE WATER LEVEL CONTROLLER.
7. ALL REQUIRED POWER SUPPLIES FOR THE ELECTRICAL EQUIPMENT NEEDED TO OPERATE THE POOL SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND GUIDELINES. THE CITY OF METAIRIE WILL BE SUPPLYING THE FRESH WATER SUPPLY AND ACCEPTING THE WASTEWATER.
8. TWO HOSE BIBBS ARE PROVIDED IN LOCATIONS INDICATED ON PLANS.
9. HAND RAILS SHALL MEET CODE XXIV - 327.A.1.
10. LADDERS SHALL MEET CODE XXIV-329.
11. POOL INLETS SHALL DISCHARGE 10" TO 15" BELOW POOL OVERFLOW.
12. A 12' STRONG POLE WITH BODY HOOK, AND A THROWING ROPE WITH BUOY SHALL MEET CODE XXIV-703A1 AND 2.
13. ALL POOL DEPTH MARKERS AND NO DIVING SYMBOLS SHALL BE IN COMPLIANCE WITH LAC TITLE 51 PART XXIV, AND OF NON-SLIP FINISH ON THE POOL DECK. CORRESPONDING DEPTH MARKERS AND NO DIVING SYMBOL TILE SHALL ALSO BE PLACED ON THE POOL WALL WITH A SMOOTH FINISH WITHIN THE WATERLINE TILE.
14. A TOTAL OF 4 WALL RETURN OUTLETS OF THE EYEBALL TYPE WILL BE ADDED TO THE POOL (2 RETURNS FOR EACH TANNING SHELF).
15. TWO TANNING SHELVES TO BE ADDED TO THE EXISTING POOL AS SHOWN, ALONG WITH ONE SKIMMER FOR EACH SHELF.
16. PLASTER FINISH FOR ALL OF POOL IS TO BE WHITE TO FACILITATE THE IDENTIFICATION OF ANY OBJECTS WITHIN THE POOL. THE WHITE COLORED PLASTER FINISH SHALL BE COMPLIANT WITH LAC.51:XXIV.301.B.
17. ALL POOL DECK SURFACES ARE TO SLOPE AWAY FROM THE POOL DECK AT A MINIMUM OF 1/8" PER FOOT PER CODE LAC.51:XXIV.323.G, AT A MAXIMUM OF 1/4" PER FOOT PER ADA REGULATIONS, AND SHALL BE COATED WITH A NON-SLIP FINISH PROVIDING FOR A TEXTURED DECK FINISH.
18. PER CODE LAC.51:XXIV.323.Q, THE CIRCULATION SYSTEM PIPING, OTHER THAN THAT INTEGRALLY INCLUDED IN THE MANUFACTURE OF THE POOL, SHALL BE HYDRAULICALLY PRESSURE TESTED (SEALED SYSTEM) AT 25 POUNDS PER SQUARE INCH (PSI) FOR 30 MINUTES. AFTER EXECUTING ALL DEMOLITION WORK AND ADDING OF ADDITIONAL INLETS, PIPING SHALL BE SEALED AND PRESSURE TESTED TO ASSURE ALL EXISTING PIPE, AND ALL ADDITIONAL PIPING AND COMPONENTS ARE LEAK FREE AND ARE CODE COMPLIANT BEFORE BACKFILLING OF ANY TRENCHES OR COVERING UP OF ANY PIPE.
19. PER CODE LAC.51: XXIV.323.S, A HOSE BIB AND A VACUUM BREAKER SHALL BE PROVIDED FOR WASHING DOWN THE ENTIRE POOL DECK AREA. (SEE NOTE #8 ON THIS SHEET)

20. POOL HANDRAIL LOCATION IS AS SHOWN ON PLAN SHEET PL-1.0 DETAIL 01 AND AS DETAILED ON PLAN SHEET PL-1.1 DETAIL 03. THE POOL RAIL SHALL BE INSTALLED TO FACILITATE THE ENTRY/EXIT. ALL DIMENSIONAL DETAILS FOR THE POOL RAIL TO BE IN COMPLIANCE WITH CODE LAC.51:XXIV.327.A.1. ALSO DETAILED IN ON SHEET PL-1.0 ARE THE TREAD AND RISER DIMENSIONS, AND THE ANCHOR LOCATION DIMENSIONS FOR THE POOL RAIL, SHOWING COMPLIANCE WITH THE CODE.
21. PLAN SHEET PL-1.0 SHOWS THAT THE EXISTING POOL ENTRY/EXIT LADDER INSTALLED SHALL BE REMOVED, SALVAGED, AND RELOCATED AS SHOWN ON PLAN. THE EXISTING POOL LADDER SHALL MEET CODE LAC.51:XXIV.329. THE DESIGN AND CONSTRUCTION OF THE LADDER SHALL BE MADE ENTIRELY OF CORROSION RESISTING MATERIAL, SHALL PROVIDE TWO HAND HOLDS OR HANDRAILS, SHALL MAINTAIN A CLEARANCE OF 3" TO 6" FROM THE POOL WALL AND THE LADDER TREAD EDGE. THE CLEAR DISTANCE BETWEEN LADDER RAILS SHALL BE BETWEEN 17" AND 24". THERE SHALL BE A UNIFORM HEIGHT BETWEEN LADDER TREADS, WITH A 7 INCH TO 12 INCH DISTANCE IN BETWEEN EACH TREAD. LADDER TREADS SHALL HAVE A MINIMUM HORIZONTAL DEPTH OF 1.5 INCHES.
22. ALL POOL EQUIPMENT, POOL MATERIALS, DISINFECTION DISINFECTION EQUIPMENT, AND CHEMICAL FEEDERS ARE COMPLIANT WITH NSF 50. AS PER LAC.51:XXIV.501.D AND 901.A, WHERE EQUIPMENT SIZING FALLS WITHIN SCOPE OF NSF TESTING, MATERIALS AND EQUIPMENT USED IN THE CIRCULATION SYSTEM SHALL COMPLY WITH THE APPROPRIATE REQUIREMENTS OF NSF STANDARD 50. DISINFECTANT EQUIPMENT AND CHEMICAL FEEDERS HEREINAFTER REFERRED TO JOINTLY AS "EQUIPMENT", SHALL COMPLY WITH THE REQUIREMENTS OF NSF STANDARD 50. THE DISINFECTION EQUIPMENT SHALL BE CAPABLE OF PRECISELY INTRODUCING A SUFFICIENT QUANTITY OF AN APPROVED DISINFECTING AGENT TO MAINTAIN THE APPROPRIATE RECOMMENDED GUIDELINES REQUIRED CONCENTRATIONS AS PER 903 AND 905. SEE PLAN SHEET PL-1.3 FOR NSF CERTIFIED EQUIPMENT AND PRODUCT DATA FOR REQUIRED COMPONENTS.
23. PER CODE LAC.51:XXIV.503.A, WATER VELOCITY IN THE POOL PIPING SHALL NOT EXCEED 10 FEET PER SECOND FOR DISCHARGE PIPING, AND 6 FEET PER SECOND FOR SUCTION PIPING, UNLESS SUMMARY CALCULATIONS ARE PROVIDED TO SHOW THAT THE GREATER FLOW IS POSSIBLE WITH THE PUMP AND PIPING PROVIDED. POOL PIPING SHALL BE SIZED TO PERMIT THE RATED FLOWS FOR FILTERING AND CLEANING WITHOUT EXCEEDING THE MAXIMUM HEAD FOR THE PUMP. SEE SHEET PL-1.0 FOR PIPE SIZING AND VELOCITY CHART.
24. SEE POOL SCHEMATIC FOR ALL REQUIRED GAUGES, FLOW METERS, AND OTHER REQUIRED COMPONENTS FOR THE OPERATION OF THE POOL SYSTEM IN COMPLIANCE WITH CODE.
25. THE EXISTING POOL MAIN DRAIN AND COVER SHALL BE INSPECTED TO ASSURE THAT THE MAIN DRAIN COVER'S EXPIRATION DATE IS CURRENT, AND IS NSF 50 AND VGB 2008 COMPLIANT. SHOULD THE DRAIN BE DETERMINED OTHERWISE, A NEW MAIN DRAIN COVER WILL BE PROVIDED TO FIT THE EXISTING MAIN DRAIN SUMP, WHICH WILL BE IN COMPLIANCE WITH LAC.51:XXIV.511.C.1 AND C.3.
26. THIS POOL WILL BE OPERATED ONLY DURING DAYLIGHT HOURS, THEREFOR NOT REQUIRING ANY LIGHTING REQUIREMENTS PER LAC.51:XXIV.715.
27. EXISTING MECHANICAL ROOM VENTILATION IS TO REMAIN, AS ADEQUATE PROVISIONS ARE CURRENTLY IN PLACE.
28. A TAYLOR COMPLETE TEST KIT WHICH UTILIZES THE DPD TESTING METHOD PER LAC.51:XXIV.901.C SHALL BE PROVIDED AND USED.
29. IN ACCORDANCE WITH LAC.51:XXIV.901.B.3, THE pH SHALL BE MAINTAINED BY USE OF AN OFFLINE CHLORINATION FEEDER (PENTAIR MODEL 302 - ACCEPTS SMALLER CHLORINE TABLETS). HAND BATCH FEEDING OF ANY pH CHEMICAL INTO THE POOL IS EXPRESSLY PROHIBITED.
30. THE ADDITIONAL TANNING SHELVES ON THE EXISTING POOL SHALL START AT THE EDGE OF THE STEPS, WHERE THE WATER DEPTH IS 3'-0" MINIMUM, AND TERMINATE AT THE 4'-0" WATER DEPTH.
31. EACH TANNING SHELF CONSISTS OF 38 SQUARE FEET, AND SHALL EACH HAVE TWO EYEBALL INLETS PLACED ACCORDING TO PLAN SHEET PL-1.1. TWO SKIMMERS SHALL BE ADDED, TO ACCOMODATE THE TANNING SHELVES. EACH SKIMMER IS CAPABLE OF CIRCULATING POOL WATER AT 500 SQUARE FEET OF SURFACE AREA OF POOL WATER.

32. ALL EQUIPMENT PROVIDED FOR THE POOL SHALL BE NSF 50 COMPLIANT IN ACCORDANCE WITH LAC.51:XXIV.

DEMOLITION NOTES

1. EXISTING POOL FENCE IS TO BE REMOVED AND REPLACED TO BE FINISHED AT 5'-0" HIGH.
3. EXISTING POOL EQUIPMENT TO BE REPLACED WITH NEW POOL EQUIPMENT.
4. EXISTING POOL DECK TO BE DEMOLISHED AND REPLACED WITH A NON-SLIP FINISH
6. LANDSCAPING WILL BE AS SHOWN.
7. EXISTING SIDEWALK WILL REMAIN.
8. LEDGER NEXT TO BUILDING WILL BE DEMOLISHED AND REPLACED BY A NEW SIDEWALK AS SHOWN.

SYSTEM DESIGN CALCULATION NOTES

VOLUME CALCULATION =

VOLUME OF WATER FOR MAIN POOL BODY =	2,109 CU FT
VOLUME OF WATER FOR TANNING SHELF =	295 CU FT
295 CU FT x 2 SHELVES =	590 CU FT
TOTAL VOLUME=	2699 CU FT
2699 CU FT x 7.48 GALLONS =	20,188 GAL
2699% = 3,365 GPH	3,365 GPH/60 GPM = 56.08 GPM

VELOCITY AND PIPE SIZING =

SUCTION NOT TO EXCEED 6 FPS - RETURN NOT TO EXCEED 10FPS

NOTE: SEE SIZED LINES IN BELOW TABLE.

PIPE IDENTIFICATION LEGEND

IDENTIFICATION	PLAN ID	SIZE	TYPE	FLOW RATE	VELOCITY
MAIN DRAIN SUCTION	A	2.0"	SCH 40 PVC	56.08 GPM	5.73 FPS
SKIMMER SUCTION	B	2.0"	SCH 40 PVC	56.08 GPM	5.73 FPS
SKIMMER SUCTION	C	2.0"	SCH 40 PVC	56.08 GPM	5.73 FPS
INLET RETURN	D	2.0"	SCH 40 PVC	56.08 GPM	5.73 FPS
INLET RETURN	E	1.5"	SCH 40 PVC	28.04 GPM	5.09 FPS
OVERFLOW LINE	F	2.0"	SCH 40 PVC	N/A	N/A
WL SAMPLE LINE	G	1.0"	SCH 40 PVC	N/A	N/A
CHLORINE SAMPLE	H	1.0"	SCH 40 PVC	N/A	N/A

HEAD LOSS CALCULATIONS

RETURN HEAD LOSS =

FILTER (PER MANUFACTURER) = 3780 GPH = 63 GPM =	7 FT HD
HI-FLOW VALVE FOR 2" FACE PIPING =	9 FT. HD
321 LN FT OF RETURN PIPING (@ 6.037 FT HD PER 100 LN. FT.)	
321 LN. FT./100 = 3.21	3.21x6.037 = 19.38 FT. HD.
10 x 3/4" EYEBALL RETURN INLETS = 10x.30 FT. HD =	3 FT. HD.
16 x 2" 90 DEGREE ELBOW = 16 x 8.6 LN. FT. =	137.6 LN. FT.
11 x 2" TEE = 11 x 4.3 LN. FT. =	47.3 LN. FT.
3 x 2" 45 DEGREE ELBOW = 3 x 2.6 LN. FT. =	7.8 LN. FT.
FITTING HEAD LOSS = [(7.8 + 47.3 + 137.6)/100]*6.037 FT HD =	

[192.7/100]\*6.037 FT HD = 11.63 FT. HD.

TOTAL HD LOSS = 47.01 FT. HD.

SUCTION HEAD LOSS

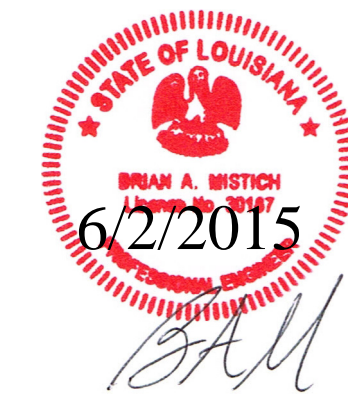
150 LN. FT. PIPE (@6.037 FT HD PER 100 LN. FT) =	
150/100 = 1.5	1.5 x 6.037 FT. HD. = 9.06 FT. HD.
7 x 90 DEGREE ELBOW (@8.6 LN. FT.) =	60.2 LN. FT.
60.2/100 = .602	.602 x 6.037 FT. HD. = 3.63 FT. HD.
4 SKIMMERS (EACH AT 1.75 FT. HD) =	7 FT. HD

TOTAL HD LOSS= 19.69 FT. HD

TOTAL SYSTEM HEAD LOSS = 66.7 FT. HD

MAIN RECIRCULATION PUMP SHALL BE 1 HP SIZED AT 70 FT. HD FOR OPTIMAL PERFORMANCE WITH SYSTEM DESIGN.

THE THROTTLING VALVE FOLLOWING THE PUMP, AS SHOWN IN THE PIPE SCHEMATIC, SHALL BE THROTTLED DOWN ACCORDINGLY TO RUN WITH 70 FT. HD AS SHOWN IN THE PUMP PERFORMANCE CURVE. THIS WILL ALLOW THE PUMP TO RUN AT AN OPTIMAL PERFORMANCE.



SWIMMING POOL DATA	
POOL PERIMETER:	146 FEET
POOL VOLUME:	20,189 GALLONS
RECIRCULATION RATE:	6 HOUR
DESIGN FLOW RATE	56.08 GPM
CALCULATED HEAD LOSS	66.7 FT
DESIGNED HEAD LOSS	70 FT
POOL AREA	669 SQ. FT.
POOL CAPACITY	30 EACH
POOL CONSTRUCTION	CONCRETE
POOL FINISH	PLASTER



894 ROBERT BOULEVARD  
SLIDELL, LOUISIANA 70458  
PH: 985-643-2427  
FAX: 985-643-2691  
PROTOLO@ROTOLOCONSULTANTS.COM

LAKE VILLA APARTMENT  
POOL RENOVATION  
LAKE AVENUE  
METAIRIE, LA.

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Contact: Rod Rotolo 985-643-2427  
Project No: 82-14080-LA

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GENERAL NOTES AND SPECIFICATIONS

Drawing No.

PL-0.0

Sheet No. 1 of 5