PROVIDED WITH A MINIMUM OF 10 FT CANDLES ILLUMINATION AROUND THE POOL.

CODE REQUIREMENTS

CODE REQUIREMENTS

1. ALL CONSTRUCTION RELATED TO THE POOL AND SURROUNDING POOL AREA SHALL BE IN FULL ACCORDANCE WITH THE LAC TITLE 51 XXIV CODE, AND ALL OTHER APPLICABLE CODES, AND STANDARDS.
2. THIS POOL IS AN EXISTING OUTDOOR POOL WHICH IS BEING REFURBISHED. THE POOL EQUIPMENT WILL BE OUTDOORS WITH A FENCED IN AREA.

NOTE: GOING FORWARD WITHIN THIS DOCUMENT: ALL SUBSECTIONS REFERENCED FROM THE LAC TITLE XXIV CODE SHALL EXCLUDE "LAC TITLE 51 XXIV CODE" AND LIST ONLY THE SPECIFIC SUBSECTION BEING REFERENCED. IT IS UNDERSTOOD THAT ALL SUBSECTIONS BEING REFERENCED WITHIN THIS DOCUMENT ARE UNDER LAC TITLE 51 XXIV CODE.

DESIGN REQUIREMENTS

3. PER 301.B - ALL INTERIOR SURFACES OF THE POOL SHALL RECEIVE A LIGHT COLORED PLASTER ON ALL SURFACES NOT TILED. PLASTER TO BE WHITE.
4. PER 305.A - ALL POOL WALLS SHALL BE VERTICAL AND PLUMB.
5. PER 311.A - THE MINIMUM WATER DEPTH AT THE FOOT OF THE STEPS IS 3'-6".
6. PER 311.C - THIS POOL SHALL BE PROVIDED WITH A 4" CONTRASTING BAND AND ROPE WITH FLOATS INDICATING THE DEEP END FROM THE SHALLOW END PER CODE. DEEPEST WATER DEPTH ON THIS POOL IS 5'-0".
7. PER 311.E - DUE TO THE ESTABLISHED WATER DEPTHS, THERE WILL BE NO DIVING ALLOWED IN THIS POOL. ALL WATER DEPTH TILE MARKER LOCATIONS SHALL ALSO INCLUDE A 6"X6" INTERNATIONAL NO DIVING SYMBOL.
8. PER 315.A - THE POOL TURNOVER RATE SHALL BE SIZED AT 3.77 HOURS.
9. PER 323.B - POOL DECK SHALL BE CONSTRUCTED OF CONCRETE WITH SLIP RESISTANT POOL DECK FINISH.
10. PER 323.F.3 - THE MINIMUM CONTINUOUS UNOBSTRUCTED DECK WIDTH SHALL BE 4 FEET.
11. PER 323.G - THE POOL DECK SHALL BE ¼" PER 1 FOOT. (SEE PLAN SHEET PL-1.0 FOR SLOPE DIRECTION). NOTE THAT WATER SHALL SHED OFF OF THE POOL DECK, AND INTO EXISTING LANDSCAPED PLANS WHICH EXHIBIT DRAINAGE TO CATCH STORM WATER.
12. PER 323.J - CONTROL JOINTS AROUND THE COPING AND THROUGHOUT THE DECK SHALL BE CONSTRUCTED TO A MINIMUM WIDTH OF ⅛, AND SHALL BE WATER TIGHT IN FULL COMPLIANCE WITH THE LAC.51 CODE".
13. PER 323.O - POOL DECK SHALL BE SLOPED AS INDICATED ON SHEET PL-1.0.
14. PER 323.P - SITE DRAINAGE SHALL BE INSTALLED TO EFFECTIVELY SHED WATER FROM POOL DECK AND POOL, AND PREVENT FLOODING OR EROSION OF LANDSCAPING ONTO POOL DECK OR POOL.
15. PER 323.Q - ALL POOL CIRCULATION SYSTEM PIPING SHALL BE TESTED WITH AN INDUCED STATIC HYDRAULIC PRESSURE TEST AT 25 PSI FOR 30 MINUTES, AND SHALL BE PERFORMED BEFORE ANY OF THE PIPING IS COVERED UP. PIPING WILL REMAIN UNDER PRESSURE THROUGHOUT THE ENTIRE DURATION OF THE CONSTRUCTION PROCESS AS MUCH AS FEASIBLY POSSIBLE.
16. PER 323.S - A HOSE BIB WITH A VACUUM BREAKER SHALL BE PROVIDED FOR WASHING DOWN THE ENTIRE POOL DECK AREA.
17. PER 325 - TWO MEANS OF EXIT/EGRESS IS PROVIDED ON THIS POOL BY MEANS OF STAIRS WITH A HANDRAIL IN THE SHALLOW END, AND A LADDER IN THE DEEP END. EACH ENTRY DOES NOT EXCEED 75 LINEAR FEET MAXIMUM SPACING.
18. PER 327 - ALL STAIR TREADS ARE 18", ALL RISERS ARE UNIFORMLY 9", WITH THE BOTTOM RISER VARYING NO MORE THAN PLUS OR MINUS 2", ONE HANDRAIL SHALL BE PROVIDED, AND SHALL BE NO MORE THAN 18 INCHES HORIZONTAL DISTANCE FROM THE FACE OF BOTTOM RISER. THE OUTSIDE DIAMETER OF THE HANDRAIL IS 1.90" O.D..
19. PER 329 - THIS POOL SHALL HAVE ONE LADDER BEING IN FULL COMPLIANCE WITH CODE.

CIRCULATION SYSTEMS

20. PER 501 - ALL POOL EQUIPMENT IS SIZED TO MEET OR EXCEED 3.77 HOUR TURNOVER, AND ALL POOL EQUIPMENT SHALL MEET NSF 50 PER.
21. PER 503.A- WATER VELOCITY FOR DISCHARGING PIPE SHALL NOT EXCEED 10 FPS, AND THE VELOCITY FOR THE SUCTION PIPING SHALL NOT EXCEED 6 FPS. (SEE ATTACHED VELOCITY CHART AS SHOWN ON PLAN SHEET G-1.0 AND PL-1.1)
22. PER 503.C.1 - THIS POOL SHALL BE PROVIDED WITH A FLOW METER SHOWING FLOW RATE THROUGH THE FILTER SYSTEM IN GALLONS PER MINUTE.
23. PER 505 - PROPERLY SIZED SAND FILTER SHALL BE PROVIDED WITH A SIGHT GLASS TO DETERMINE WATER CLARITY.
24. PER 507 - A RECIRCULATION PUMP SHALL BE PROVIDED WHICH MEETS OR EXCEEDS THE MAXIMUM FLOW RATE FOR THE POOL RECIRCULATION SYSTEM.
25. PER 509 - THIS POOL SHALL HAVE A TOTAL OF 10 RETURN INLETS (8 DIRECTIONAL EYEBALL INLETS, AND 2 ADJUSTABLE FLOOR RETURN INLET AT THE TOP LANDINGS OF THE STEPS AS SHOWN PER PLANS. TWO MAIN DRAINS ARE TO BE LOCATED AS SHOWN ON PLANS, AND EACH DRAIN AND ASSOCIATED PIPING SHALL ACCOMMODATE THE MAXIMUM FLOW RATE FOR THIS POOL. ALL RETURN INLETS PROVIDED MEET THE MINIMUM OF TWO INLETS PER 600 SQUARE FEET OF WATER SURFACE AREA.
26. PER 511 - ALL WALL RETURN INLETS AND FLOOR RETURN INLET SHALL BE ADJUSTABLE. THE WALL RETURN INLETS SHALL BE LOCATED BETWEEN 10 INCHES AND 15 INCHES BELOW POOL OVERFLOW LEVEL.
27. PER 513 - ALL SUCTION OUTLETS SHALL HAVE ANTI-VORTEX COVERS (THIS INCLUDES THE MAIN DRAINS, AND ALL SUCTION COVERS FOR THE EQUALIZER LINES ON EACH SKIMMER. THE 8" MAIN DRAINS ARE SPACED AT 5'-0" CENTER TO CENTER.
28. PER 515 - A SURFACE SKIMMER SHALL BE PROVIDED FOR EVERY 500 SQ. FT. OF WATER SURFACE AREA. 2 EA SURFACE SKIMMERS ARE PROVIDED.

GENERAL STANDARDS

29. PER 701 - ALL DEPTH MARKER REQUIREMENTS FOR THIS CODE SECTION ARE IDENTIFIED ON PLAN SHEET PL-1.3, DETAIL 03, AND SHOWN ON PLANS PL-1.0 AND PL-1.1.
30. PER 703 - THIS CLASS C POOL SHALL UTILIZE THE EXISTING 12FT. LONG STRONG POLE WITH SHEPARD'S HOOK (LIFESAVING HOOK), 60 FT. THROWING ROPE AND RING BUOY, AND TELEPHONE WITH POSTED EMERGENCY NAMES AND NUMBERS.
31. PER 707.A - ALL FRESH WATER SUPPLY LINES, AND BACKWASH LINES SHALL BE SEPARATED BY A 6" MINIMUM AIR GAP, PREVENTING A PHYSICAL CONNECTION OF THE THE FRESH WATER SUPPLY LINE, OR THE BACKWASH LINE TO THE POOL WATER BODY.
32. PER 711 - BACKWASH WATER SHALL BE DISCHARGED INTO A SANITARY SEWER LINE THROUGH A 6" MINIMUM AIR GAP.
33. PER 713.A - POOL CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST NATIONAL ELECTRICAL CODE.
34. PER 715.A - THIS POOL WILL NOT BE OPEN FOR USE DURING NON-DAYLIGHT HOURS, AND THEREFORE REQUIRES NO UNDERWATER POOL LIGHTING. DECK AREA LIGHTING SHALL BE PROVIDED WITH A MINIMUM OF 10 FT CANDLES ILLUMINATION AROUND THE POOL.
35. PER 717 - THE POOL EQUIPMENT SHALL BE PLACED ON A NEW OUTDOOR PAD, WITHOUT AN ENCLOSURE, NOT REQUIRING VENTILATION.
36. PER 733.A - EXISTING POLE HOOKS, ROPES, BUOYS, FIRST AID KIT, AND OTHER LIFESAVING EQUIPMENT ARE TO BE PROVIDED IN COMPLIANCE WITH CODE.

DISINFECTION & BACTERIOLOGICAL QUALITY

37. PER 901.A - ALL DISINFECTANT EQUIPMENT SHALL COMPLY WITH NSF STANDARD 50.
38. PER 901.A.2 - THE CHLORINATOR PROVIDING DISINFECTANT TO THE POOL WATER IS TO BE ADJUSTED PENDING FIELD TESTING MEASURES THAT ARE SIMPLE AND ACCURATE.
39. PER 901.C - THE POOL SHALL BE SUPPLIED WITH A CHEMICAL TEST KIT WHICH TESTS ALLOWS FOR TESTING OF ALL LEVELS MENTIONED IN NOTE 66 WITHIN THIS DOCUMENT VIA THE DPD METHOD OF DETECTING CHLORINE RESIDUAL. (TAYLOR TEST KIT K-2006 OR BETTER WILL BE PROVIDED).
40. THE TESTING RESULTS FOR RESIDUALS SHALL MEET THE FOLLOWING.....

- TESTING FOR DETERMINATION OF pH, CHLORINE (TOTAL AND FREE), TOTAL ALKALINITY, AND CALCIUM HARDNESS.
- DISINFECTANT LEVELS AND pH SHALL BE MEASURED TWICE PER DAY, AND HOURLY WHEN POOL IS IN HEAVY USE.
- TOTAL ALKALINITY TO BE MEASURED WEEKLY
- CALCIUM HARDNESS TO BE MEASURED MONTHLY.

LEVEL REQUIREMENTS ARE....

CHLORINE	1.0 ppm MINIMUM
FAC	3.0 ppm MAXIMUM 10 MG/L MAXIMUM
TOTAL ALKALINITY	60 - 180 ppm (MG/l)
CALCIUM HARDNESS	1000 ppm (MG/L) MAXIMUM

GENERAL CONSTRUCTION NOTES

1. FOR ALL FINISHES ON THE POOL AND POOL DECK, REFERENCE THE HARDSCAPE PLANS.
2. ALL POOL DECK DEPTH MARKERS (BOTH DECK MOUNTED AND WALL MOUNTED) ARE IDENTIFIED IN THE POOL PLAN VIEWS AND SECTIONS, AND SPECIFICALLY ON SHEET PL-1.2, DETAIL 03.
3. ALL 2"X2" DARK CONTRASTING EDGE TILE WITHIN THE POOL IS IDENTIFIED THROUGHOUT ALL POOL PLAN VIEWS AND SECTION VIEWS. COLORS ARE IDENTIFIED IN THE HARDSCAPE PLANS.
4. DIMENSIONAL LAYOUT PLAN FOR POOL ON SHEET PL-1.0 IDENTIFIES THE LOCATIONS OF ALL SKIMMERS, INLETS, DRAINS, DEPTH CHANGES, DEPTH MARKERS, HAND RAIL, LADDER, AND ADA LIFT MOUNTING LOCATION.
5. ALL SKIMMERS ARE TO HAVE EQUALIZER LINES WITH SUCTION COVERS.

POOL CALCULATIONS

POOL VOLUME CALCULATIONS

3,204 CU FT x 7.48 GALLONS = 23,966 GALLONS

POOL COPING (OUTER PERIMETER) = 141 LN. FT.

POOL COPING (INNER PERIMETER) = 133 LN. FT.

WATER SURFACE AREA = 870 SQ .FT.

TURNOVER CALCULATIONS =23,966 GAL / 60 MIN = 399.40 GPM

3.77 HR TURNOVER = 106 GPM

34 BATHERS MAX LOAD CAPACITY

TR140 FILTER TURNOVER CAPACITY AT 8,460 GPH = 141 GPM

3 HP WHISPERFLO XF PUMP (MODEL XF-12)

HEAD LOSS CALCULATIONS

RETURN HEAD LOSS

QTY	UNIT	LISTING DESCRIPTION
3.0	FT	3" FLOW METER
4.06	FT	ADJUSTABLE FLOOR INLET (2 EACH AT 2.03 FT)
4.72	FT	¾" DIRECTIONAL EYEBALL FITTING (8 EACH AT .59 FT)
9.0	FT.	TR140 SAND FILTER
12.0	FT.	2" HI-FLO VALVE
5.20	FT.	1.5" PIPE (137 LN. FT.)
1.40	FT.	3.0" PIPE (44 LN. FT.)
0.47	FT.	2.5" PIPE (20 LN. FT.)
0.17	FT.	2.5" TEE FITTING (2 EACH)
1.69	FT.	2" 90 DEGREE ELBOW FITTING (4 EACH)
.70	FT.	1.5" TEE FITTING (2 EACH)
0.66	FT.	1.5" 90 DEGREE ELBOW FITTING (13 EACH)
2.88	FT.	2.5" 90 DEGREE ELBOW FITTING (6 EACH)
0.28	FT.	3" TEE (3 EACH)
1.89	FT.	3" BALL VALVE (1 EACH)
2.88	FT.	3" BALL CHECK VALVE (1 EACH)
51.00	FT. TOTAL	

SUCTION HEADLOSS

QTY	UNIT	LISTING DESCRIPTION
1.66	FT.	2.5" BALL VALVE (2 EACH)
7.0	FT.	SKIMMER (2 EACH)
4.0	FT.	MAIN DRAIN INLETS (2 EACH)
6.83	FT.	2.0" PIPE (122 LN. FT.)
1.60	FT.	3" PIPE (50 LN. FT.)
2.11	FT.	2" 90 DEGREE ELBOW FITTING (5 EACH)
1.63	FT.	2.5" TEE FITTING (2 EACH)
0.28	FT.	3" TEE (3 EACH)
25.11	FT.	TOTAL

TOTAL HEAD LOSS = 76.11 FT

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
8/23/2016
PROFESSIONAL ENGINEER

DAMMON ENGINEERING, INC.
Architects & Engineers
554 Old Spanish Trail Slidell, LA 70458 985-649-5832

POOL DESIGN DATA

WATER VOLUME =	23,966 GALLONS
TURNOVER RATE =	3.77 HOURS
FLOW RATE =	106 GPM
WATER SURFACE AREA =	870 SQ. FT.
POOL PERIMETER =	141 LN. FT.
TOTAL HEAD LOSS =	76.11 FT.
MAXIMUM BATHER LOAD =	34 PERSONS

PIPE SCHEDULE

PIPE ID	DESCRIPTION	SIZE	TYPE	FLOW RATE	VELOCITY
A	MAIN DRAIN SUCTION	3.0 INCH	SCH 40 PVC	106 GPM	4.81 FPS
B	SKIMMER SUCTION	2.5 INCH	SCH 40 PVC	53 GPM	3.46 FPS
C	RETURN LINE 10 INLETS	3.0 INCH	SCH 40 PVC	106 GPM	4.81 FPS
D	RETURN LINE 5 INLETS	2.0 INCH	SCH 40 PVC	53 GPM	5.41 FPS
E	RETURN LINE 4 INLETS	2.0 INCH	SCH 40 PVC	42.4 GPM	4.33 FPS
F	RETURN LINE 3 INLETS	1.5 INCH	SCH 40 PVC	31.8 GPM	5.77 FPS
G	RETURN LINE 2 INLETS	1.5 INCH	SCH 40 PVC	21.2 GPM	3.85 FPS
H	RETURN LINE 1 INLET	1.5 INCH	SCH 40 PVC	10.6 GPM	1.92 FPS
J	FILL LINE	2.0 INCH	SCH 40 PVC	N/A	N/A

FILE: — XREFS: —

RCI
LANDSCAPE • MAINTENANCE • CONSTRUCTION
894 Robert Blvd.
Slidell, LA 70458
LA Lic# 29959 MS Lic# 14220

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

APARTMENT HOMES BY TONTI

EDENBOURNE COURTS & GARDENS - WEST POOL
3312 EDENBOURNE AVE.
METAIRIE, LOUISIANA 70002

Copyright 2016 © Rotolo Consultants Inc.
These drawings or parts thereof, may not be reproduced in any form, by any method, for any purpose, without prior written consent from Rotolo Consultants Inc.
Contact: Rod Rotolo 985.643.2427

Project No:

Revisions:

	Date:	Description:
	8-18-2016	BOH cmnts addressed

Date: 6/21/2016

Drawn: TJH

Checked:

Sheet Title:

SPECIFICATIONS, NOTES, & CALCULATIONS

Drawing No.

G-1.0

Sheet No.
1 Of: 8