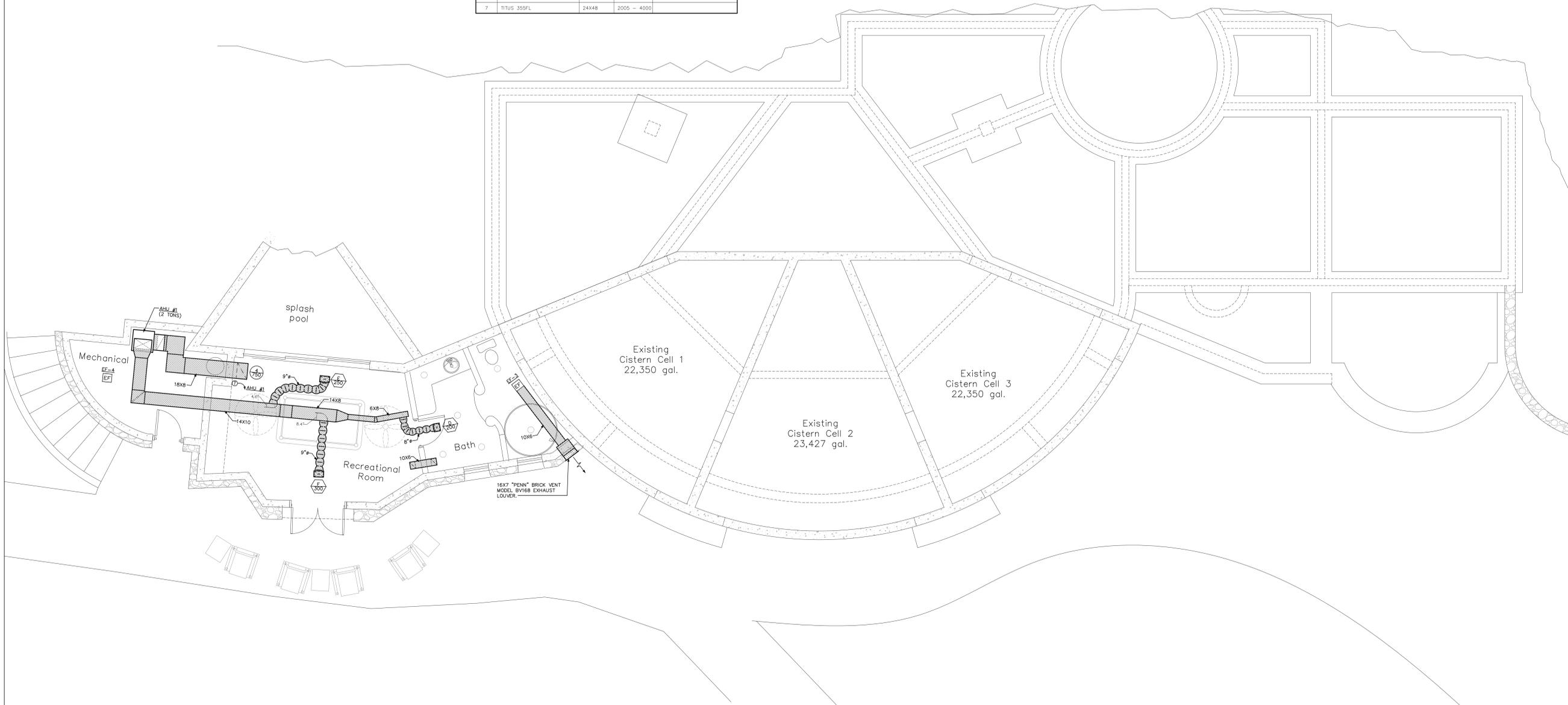


SUPPLY DIFFUSER SCHEDULE				
DESIGNATES LABEL FOR DIFFUSER TYPE		ALL DIFFUSERS ARE TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.		
DESIGNATES CFM QUANTITY FOR DIFFUSER				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS 250-AA	8X4	0 - 100	CEILING REGISTER
B	TITUS 250-AA	10X4	105 - 130	CEILING REGISTER
C	TITUS 250-AA	8X6	130 - 175	CEILING REGISTER
D	TITUS 250-AA	10X6	175 - 200	CEILING REGISTER
E	TITUS 250-AA	12X6	200 - 275	CEILING REGISTER
F	TITUS 250-AA	14X6	280 - 400	CEILING REGISTER

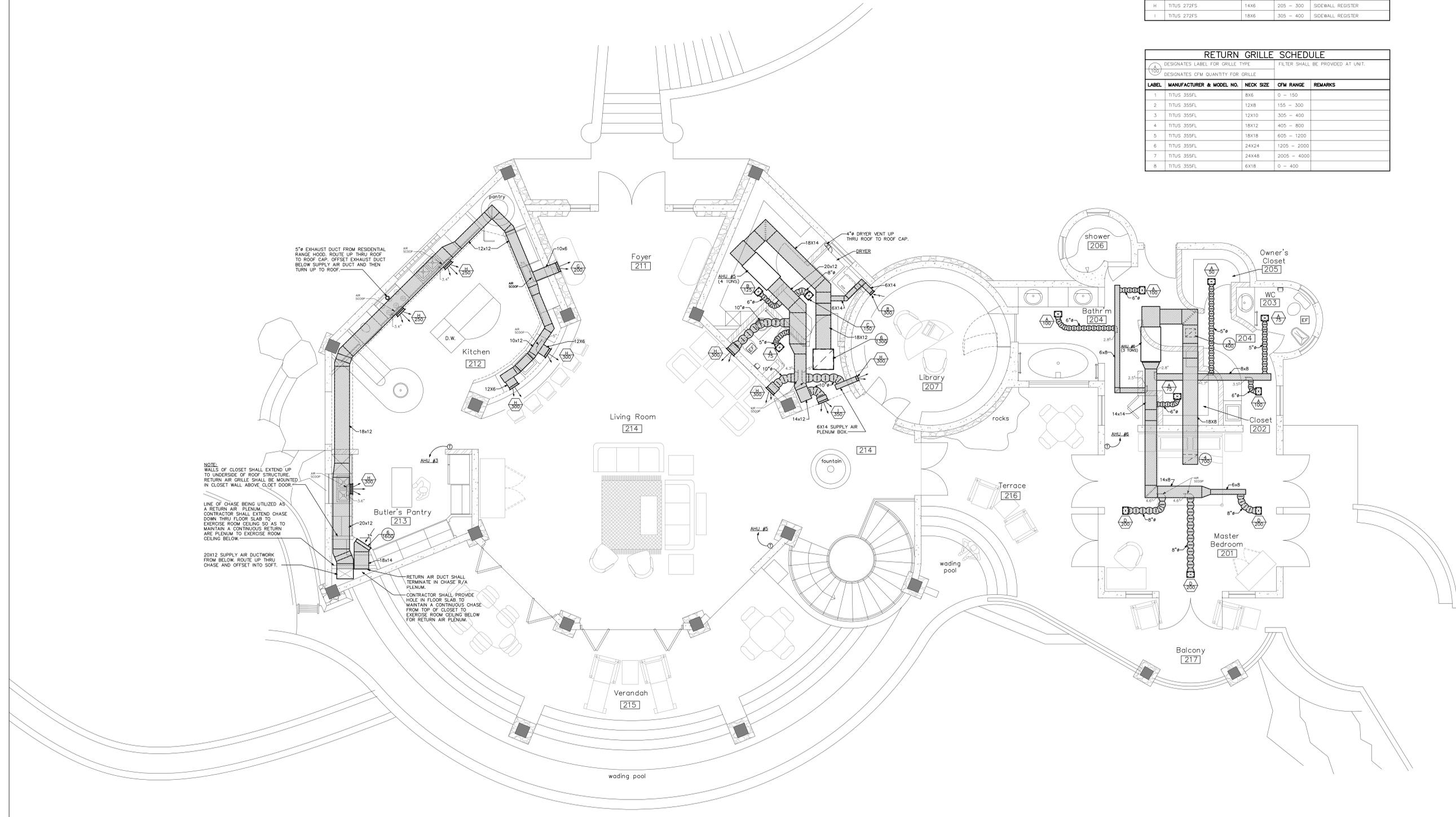
RETURN GRILLE SCHEDULE				
DESIGNATES LABEL FOR GRILLE TYPE		FILTER SHALL BE PROVIDED AT UNIT.		
DESIGNATES CFM QUANTITY FOR GRILLE				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 355FL	8X6	0 - 150	
2	TITUS 355FL	12X8	155 - 300	
3	TITUS 355FL	12X10	305 - 400	
4	TITUS 355FL	18X12	405 - 800	
5	TITUS 355FL	18X18	605 - 1200	
6	TITUS 355FL	24X24	1205 - 2000	
7	TITUS 355FL	24X48	2005 - 4000	



1 Cistern Level Floor Plan - Mechanical
SCALE: 1/4"=1'-0"

SUPPLY DIFFUSER SCHEDULE				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS 250-AA	8x4	0 - 100	CEILING REGISTER
B	TITUS 250-AA	10x4	105 - 130	CEILING REGISTER
C	TITUS 250-AA	8x6	130 - 175	CEILING REGISTER
D	TITUS 250-AA	10x6	175 - 200	CEILING REGISTER
E	TITUS 250-AA	12x6	200 - 275	CEILING REGISTER
F	TITUS 250-AA	14x8	280 - 400	CEILING REGISTER
G	TITUS 272FS	10x6	155 - 200	SIDEWALL REGISTER
H	TITUS 272FS	14x6	205 - 300	SIDEWALL REGISTER
I	TITUS 272FS	18x6	305 - 400	SIDEWALL REGISTER

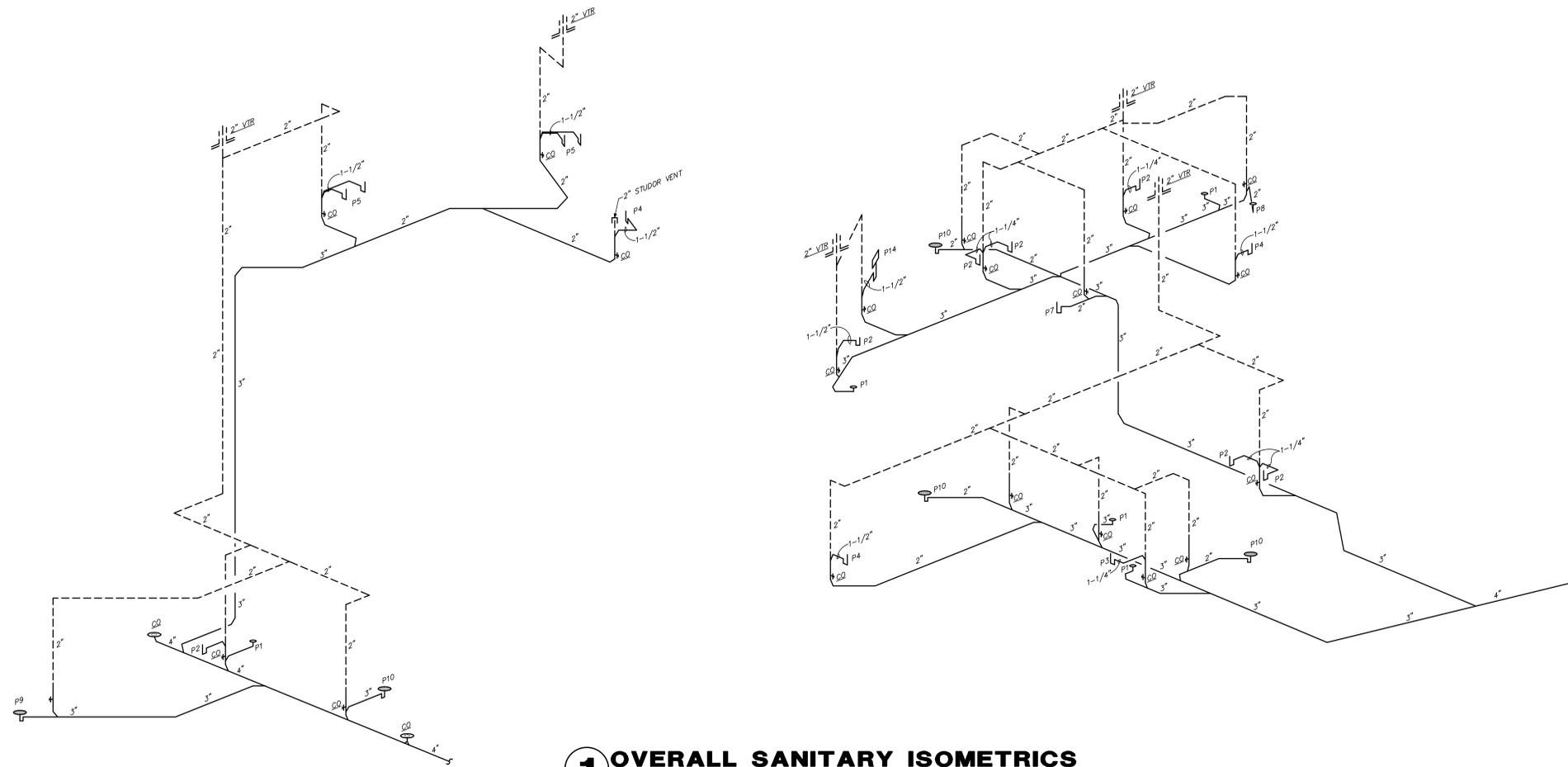
RETURN GRILLE SCHEDULE				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 355FL	8x6	0 - 150	
2	TITUS 355FL	12x8	155 - 300	
3	TITUS 355FL	12x10	305 - 400	
4	TITUS 355FL	18x12	405 - 800	
5	TITUS 355FL	18x18	605 - 1200	
6	TITUS 355FL	24x24	1305 - 2000	
7	TITUS 355FL	24x48	2005 - 4000	
8	TITUS 355FL	6x18	0 - 400	



PLUMBING FIXTURE SCHEDULE

- P-1 (WATER CLOSET)
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- P-2 (COUNTER TOP LAVATORY)
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- P-3 (WALL HUNG LAVATORY)
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- P-4 (1-COMPARTMENT SINK)
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- P-5 (2-COMPARTMENT SINK)
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- P-6 (WASHING MACHINE)
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- P-7 (TUB)
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- P-8 (BIDET)
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- P-9 (FLOOR DRAIN WITH TRAP PRIMER)
SHALL BE A JOSAM 30000-A-50 SERIES COATED CAST IRON FLOOR DRAIN. TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WELDED INVERTIBLE NON-PUNCTURING FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET, INSIDE CAULK CONNECTION AND ADJUSTABLE SATIN NIKKALDY ROUND SUPER-FLO STRAINER.
- P-10 (SHOWER STALL AND MIXING VALVE)
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- P-11 (EXTERIOR HOSE BIBB W/HANDWHEEL)
SHALL BE A "NIBCO" SERIES 63LS, GRAINGER STOCK NO. 5E407, 3/4" SOLO BRONZE HOSE BIBB WITH ALUMINUM HANDWHEEL.
- P-12 (WATER HEATER)
SHALL BE A LOCHINVAR MODEL ETA052KK, 50 GALLON GLASSLINED STORAGE TANK, TALL TYPE WATER HEATER WITH (2) - 4.5 KW ELECTRIC ELEMENTS WIRED FOR NON-CONCURRENT INDEPENDENT OPERATION AT 208 VOLTS, SINGLE PHASE INCOMING POWER. 5 YEAR LIMITED WARRANTY ON STORAGE TANK AGAINST TANK FAILURE. WATER HEATER SHALL MEET OR EXCEED ALL APPLICABLE SECTIONS OF ASHRAE STANDARD 90-90A AND NAECA REQUIREMENTS FOR ENERGY CONSERVATION.
- P-13 (WATER HEATER)
SHALL BE A LOCHINVAR MODEL ETA052KK, 50 GALLON GLASSLINED STORAGE TANK, TALL TYPE WATER HEATER WITH (2) - 4.5 KW ELECTRIC ELEMENTS WIRED FOR NON-CONCURRENT INDEPENDENT OPERATION AT 208 VOLTS, SINGLE PHASE INCOMING POWER. 5 YEAR LIMITED WARRANTY ON STORAGE TANK AGAINST TANK FAILURE. WATER HEATER SHALL MEET OR EXCEED ALL APPLICABLE SECTIONS OF ASHRAE STANDARD 90-90A AND NAECA REQUIREMENTS FOR ENERGY CONSERVATION.
- P-14 (JUNIOR WATER HEATER BELOW COUNTER)
WATER HEATER SHALL BE A LOCHINVAR MODEL JRO030E, 30 GALLON GLASSLINED STORAGE TANK, JUNIOR TYPE WATER HEATER WITH (1) - 1.5 KW ELECTRIC ELEMENT AT 115 VOLTS, SINGLE PHASE INCOMING POWER. 5 YEAR LIMITED WARRANTY ON STORAGE TANK AGAINST TANK FAILURE. WATER HEATER SHALL MEET OR EXCEED ALL APPLICABLE SECTIONS OF ASHRAE STANDARD 90-90A AND NAECA REQUIREMENTS FOR ENERGY CONSERVATION.
- P-15 (WATER HEATER)
SHALL BE A LOCHINVAR MODEL ETA066KK, 65 GALLON GLASSLINED STORAGE TANK, TALL TYPE WATER HEATER WITH (2) - 4.5 KW ELECTRIC ELEMENTS WIRED FOR NON-CONCURRENT INDEPENDENT OPERATION AT 208 VOLTS, SINGLE PHASE INCOMING POWER. 5 YEAR LIMITED WARRANTY ON STORAGE TANK AGAINST TANK FAILURE. WATER HEATER SHALL MEET OR EXCEED ALL APPLICABLE SECTIONS OF ASHRAE STANDARD 90-90A AND NAECA REQUIREMENTS FOR ENERGY CONSERVATION.

- NOTES:
- 1) ALL PLUMBING FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL.
 - 2) PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
 - 3) ALL HANDICAP PLUMBING FIXTURES SHALL BE INSTALLED AS PER LATEST A.D.A. REQUIREMENTS.

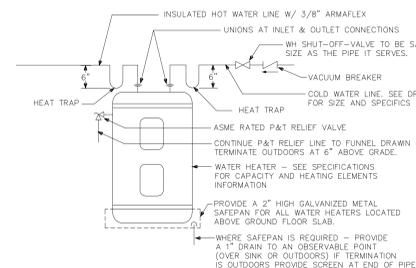


1 OVERALL SANITARY ISOMETRICS

NO SCALE

GENERAL PLUMBING NOTES

1. Drawings are diagrammatic and shall not be scaled. Refer to architectural plans and elevations for exact location of all plumbing fixtures, equipment, etc. Plumbing contractor shall furnish and install all items required for a complete and acceptable working installation.
2. All work and materials shall comply with the latest edition of the National, State, and all local codes and Ordinances having jurisdiction.
3. The plumbing contractor shall visit the site and thoroughly familiarize himself with all existing conditions. All execution and backfill as required for this phase of construction shall be a part of this contract.
4. All material shall be new.
5. All work shall be performed by a licensed plumbing contractor in a first class workmanlike manner. The completed system shall be fully operative and accepted by engineer/architect.
6. All required insurance shall be provided for protection against public liability or property damage for the duration of the work.
7. The plumbing contractor shall secure and pay all permit fees, inspections, and tests.
8. All work shall be coordinated with other trades to avoid interference with the progress of construction.
9. The plumbing contractor shall guarantee all materials and workmanship free from defects for a period of not less than (1) one year from date of acceptance. Correction of any defects shall be completed without additional charge and shall include replacement or repair of any other phase of the installation which may have been damaged thereby.
10. Verify location, size and inverts of all existing utilities prior to start of construction. Advise architect/engineer of any discrepancies.
11. All fixtures shall be provided with readily accessible stops.
12. Water piping shall be type "K" copper for up to and including 2" and shall be type "K" for 2 1/2" and larger.
13. Soil, wastes and vent piping shall be PVC #40 DMV. Waste and vent piping above slab shall be PVC, if approved by local authorities having jurisdiction, otherwise cast iron. PVC shall not be installed in A/C return air plenum or penetrate fire rated walls or floors.
14. Air conditioning condensate drain piping shall be PVC #40 or copper drain waste and bent pipe and fittings. Insulate all condensate piping except exterior piping. Install all condensate piping for air conditioning units as required per local code.
15. Furnish and install approved air chambers at each plumbing fixture and PD approved shock arresters on main lines and risers.
16. Provide chrome plated combination covered plate and cleanout plug for all wall cleanouts. Joism 58850.
17. Insulate lines as follows:
 - a) Hot water piping: 1" thick fiberglass.
 - b) Condensate piping: 1/2" thick armo-flex preformed.



2 WATER HEATER DETAIL

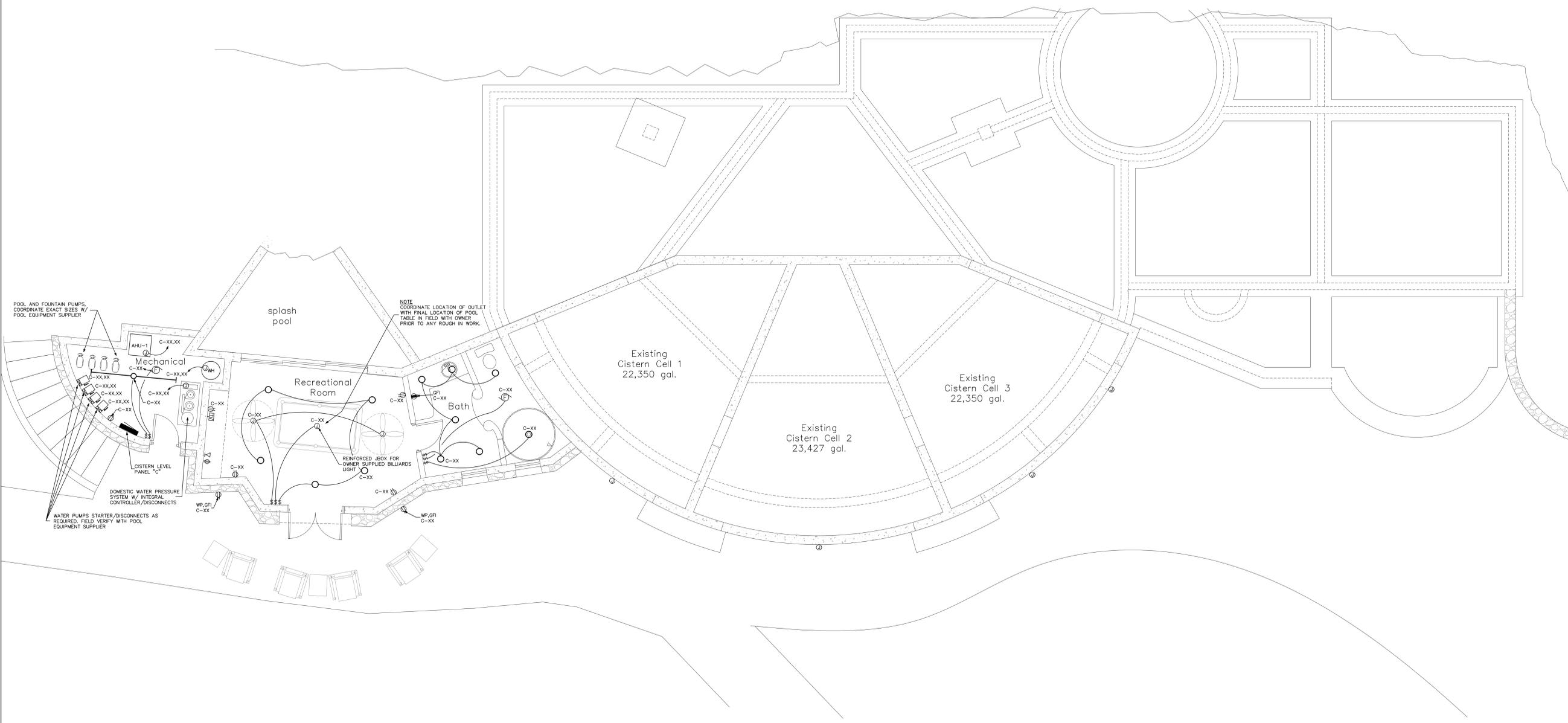
NO SCALE

CIRCUIT BREAKER PANEL SCHEDULE C									
200 AMP, 120/240 VOLT, SINGLE PHASE, THREE WIRE, W.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE									
BR.	CIR.	WIRE AND CONDUIT			LOAD DESCRIPTION	WIRE AND CONDUIT			BR.
		COND.	NEUTRAL	KEYS		COND.	NEUTRAL	KEYS	
1	40/2	#10	---	#10 1/2	CHAL	POOL PUMP MOTOR	0	2040	2
3	40/2	#10	---	#10 1/2	CHAL	POOL PUMP MOTOR	0	2040	2
5	40/2	#10	---	#10 1/2	CHAL	POOL PUMP MOTOR	0	2040	2
7	40/2	#10	---	#10 1/2	CHAL	POOL PUMP MOTOR	0	2040	2
9	40/2	#10	---	#10 1/2	CHAL	POOL PUMP MOTOR	0	2040	2
11	40/2	#10	---	#10 1/2	CHAL	POOL PUMP MOTOR	0	2040	2
13	40/2	#10	---	#10 1/2	CHAL	POOL PUMP MOTOR	0	2040	2
15	40/2	#10	---	#10 1/2	CHAL	POOL PUMP MOTOR	0	2040	2
17	20/2	#12	---	#12 1/2	CHAL	AIR HANDLING UNIT #1	0	348	18
19	20/2	#12	---	#12 1/2	CHAL	AIR HANDLING UNIT #1	0	348	18
21	30/2	#12	---	#12 1/2	CHAL	CONDENSING UNIT #1	0	1788	22
23	30/2	#12	---	#12 1/2	CHAL	CONDENSING UNIT #1	0	1788	22
25	25/2	#10	---	#10 1/2	CHAL	WATER HEATER	0	2250	24
27	25/2	#10	---	#10 1/2	CHAL	WATER HEATER	0	2250	24
29	20/1	#12	#12	#12 1/2	CHAL	DOM WATER PRESSURE PUMPS	0	864	30/2
							0	2184	30

WIRE/CONDUIT KEY	WIRING TYPE	INSULATION	CONDUIT TYPE	TEMP RATING	17574	15630	PEAK PHASE (A) UNBALANCED NEUTRAL LOAD AMPS =	23.7 AMPS
1254	C-U	W-T	A-CMT	L-75-90 Deg. F.	33.204		NON-DIVERSIFIED LOAD AT 240 VOLT, SINGLE PHASE =	138.4 AMPS
PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.401								
REGISTERED TO - TODD V. CAREY AND ASSOCIATES OF THE CAROLINAS, PA								

PANEL C DIVERSIFICATION CALCULATIONS	
BASED ON RESIDENTIAL 2010-30 CALCULATION COVERING 353 SQUARE FEET	
NEC 220-30 GENERAL LOADS FOR CALCULATION	
LIGHTING AND RECEPTACLES	1575
325 SQUARE FEET X 3.0 WATTS/FEET	2156
MISC. NON-CONTINUOUS LOADS AT 100%	4500
TOTAL GENERAL LOADS	4979
FIRST 100% OF GEN LOADS AT 100%	10000
REMAINDER OF GEN LOADS AT 40%	15672
PLUS 100% WMC LOADS AT 100%	4072
TOTAL DIVERSIFIED PANEL LOAD	29844
LOAD AT 120/240V/1-Phase/3-Wire	124.8A

ELECTRICAL SYMBOLS LEGEND		NOTE - NOT ALL SYMBOLS MAY BE USED FOR PROJECT	
SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
Ⓛ	DUPLEX RECEPTACLE, MTD. +18" AFF	Ⓛ	JUNCTION BOX FOR OWNER PROVIDED SPEAKER, SEE PLAN NOTES.
Ⓛ	240 VOLT RECEPTACLE (HT. AS REQ.)	Ⓛ	PANEL - SIZE AS NOTED
Ⓛ	QUADRUPLX RECEPTACLE, MTD. +18"	Ⓛ	MOMENTARY CONTACT PUSH BUTTON
Ⓛ	COUNTERTOP HT. RECEPTACLE +42"	Ⓛ	F-FAN, M-MOTOR, P-PUMP
Ⓛ	SINGLE POLE SWITCH	Ⓛ	SPECIAL OUTLET - AS REQUIRED
Ⓛ	THREE-WAY SWITCH	Ⓛ	2" HORIZONTAL (B INDICATES PANEL)
Ⓛ	MANUAL STARTER SWITCH	Ⓛ	EXT SIGN, ONE SIDED, OR TWO SIDED
Ⓛ	DIMMER SWITCH	Ⓛ	EMERGENCY LIGHTING
Ⓛ	SWITCH W/ ILLUMINATION WHEN ON	Ⓛ	RECESSED MOUNTED LIGHTING FIXTURE
Ⓛ	TELEPHONE JACK	Ⓛ	B DESIGNATES FIXTURE TYPE
Ⓛ	COMPUTER DATA TERMINAL OUTLET	Ⓛ	HORNBY HTD LIGHTING FIXTURE
Ⓛ	DISCONNECT SWITCH W/ STARTER	Ⓛ	B DESIGNATES FIXTURE TYPE
Ⓛ	ISOLATED GROUND	Ⓛ	FLUORESCENT LIGHTING FIXTURE
Ⓛ	FLR. MTD. FLUSH DUPLEX RECEPTACLE	Ⓛ	B DESIGNATES FIXTURE TYPE
Ⓛ	FLR. MTD. FLUSH QUAD. RECEPTACLE	Ⓛ	FLUORESCENT STRIP LIGHTING FIXTURE
Ⓛ	FLR. MTD. FLUSH TELEPHONE JACK	Ⓛ	B DESIGNATES FIXTURE TYPE
Ⓛ	FLR. MTD. FLUSH COMPUTER TERMINAL	Ⓛ	B DESIGNATES FIXTURE TYPE
Ⓛ	SMOKE DETECTOR	Ⓛ	HEAT DETECTOR
Ⓛ	HEAT DETECTOR	Ⓛ	EWC ELECTRIC WATER COOLER
Ⓛ	DUCT SMOKE DETECTOR	Ⓛ	ASW ABOVE SHOW WINDOW
Ⓛ	MANUAL PULL STATION	Ⓛ	BSW BELOW SHOW WINDOW
Ⓛ	HORN WITH STROBE LIGHT, MTD. +80"	Ⓛ	FACP FIRE ALARM CONTROL PANEL
Ⓛ	STROBE LIGHT ONLY, MTD. +80"	Ⓛ	FAAP FIRE ALARM ANNUNCIATOR PANEL



1 CISTERN LEVEL FLOOR PLAN - ELECTRICAL
SCALE: 1/4"=1'-0"

