

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0103825
Insp Area: 2

Site Address: 7473 HIGHWIND WY SAC
Parcel No: 031-0880-010

Sub-Type: RES
Housing (Y/N):

ARCHITECT

CONTRACTOR

OWNER
RUA JUDI A
7473 HIGHWIND WY
SACRAMENTO CA 95831

Nature of Work: 15X25 GUNITE SWIMMING POOL - NO HEATER

CONSTRUCTION LENDING AGENCY: I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name _____ Lender's Address _____

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class _____ License Number _____ Date _____ Contractor Signature _____

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00):

I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code. The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

I am exempt under Sec. _____ B & PC for this reason: _____

Date 4-17-01 Owner Signature [Signature]

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the above mentioned property for inspection purposes.

Date 4-17-01 Applicant/Agent Signature [Signature]

WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:
I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier

Policy Number

Exp Date

(This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 4-17-01 Applicant Signature [Signature]

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

OWNER-BUILDER VERIFICATION

ATTENTION PROPERTY OWNERS

An owner-builder building permit has been applied for in your name and bearing your signature.

Please complete and return this information in the envelope provided at your earliest opportunity to avoid unnecessary delay in processing and issuing your building permit. No building permit will be issued until this verification is received.

1. I personally plan to provide the major labor and materials for construction of the proposed Improvement (yes, or no) _____

2. I (have) have not) _____ signed an application for A building permit for the proposed work.

3. I have contracted with the following person (firm) to provide the proposed construction:

Name _____ Address _____

City _____ Telephone _____

- Contractors License No. _____

4. I plan to provide portions of the work, but I have hired the following person to coordinate, Supervise, and provide the major work.

Name _____ Address _____

City _____ Telephone _____

Contractors License No. _____

5. I will provide some of the work but I have contracted (hired) the following to provide the Work indicated:

Name	Address	Phone	Type of work

Signed *Jude Riva* _____

Job Address 7473 HIGHWIND WY _____

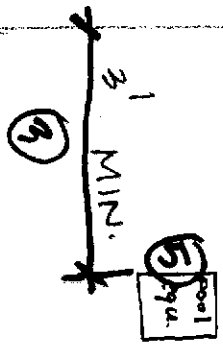
Permit No: 0103825 _____

Fence

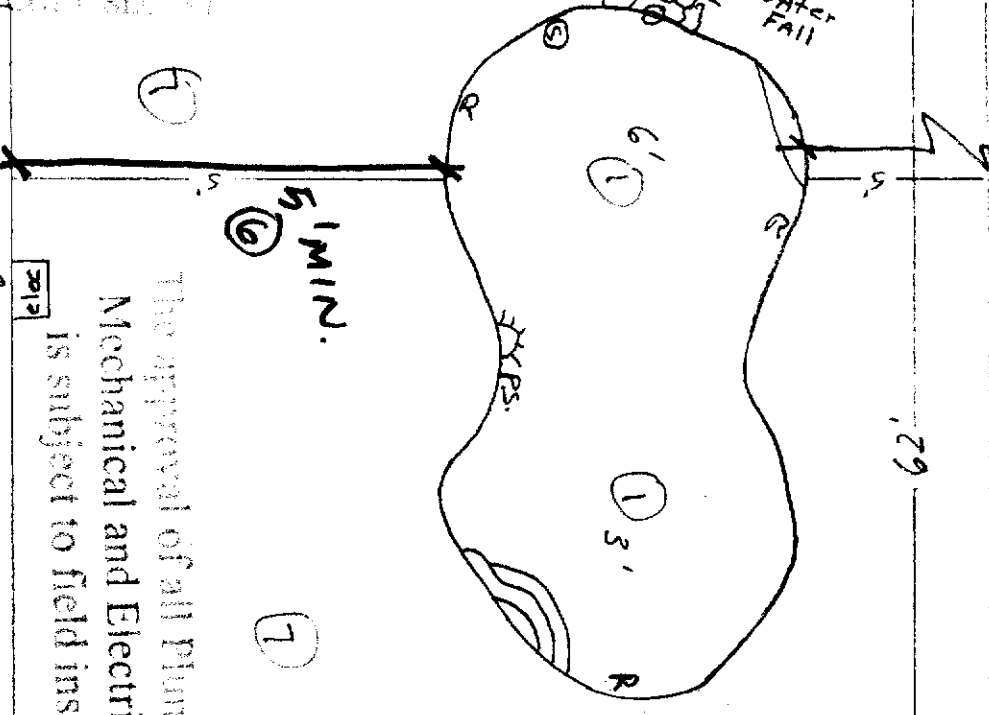
REAR PROPERTY LINE

pool - 15' x 25'
3' 6"
375 sq. ft.
80 per. ft.
Judi R. ...
7473 Highway
Sacramento CA 95834
428-6566

ALL ALLOWED POOL EQUIPMENT SHALL BE LOCATED WITHIN BOUNDARY ...
INSIDE PROPERTY LINE ...
ABOVE GROUND ...
OUTSIDE HOUSE WINDOW ...
(PER SACRAMENTO CITY CODE)



12'-6" MIN. PROPERTY LINE
TO SIDE PROPERTY LINE



The approval of all plumbing Mechanical and Electrical is subject to field inspection

Water and Sewer in Street
Check in leg...
Ut. 1700 Dept.
9 April 2001

NOTES AND ATTACHMENTS:
NUMBERED TO PLANS DENOTE ITEMS OF PARTICULAR IMPORTANCE FROM ATTACHED PERMITS FOR POOL CONSTRUCTION.
REVIEWER: [Signature]
DATE: 4/13/01

Sacramento Building Division
APR 13 2001
ISSUED



SIDE GULF WIND WAY

FRONT WIND WAY

The approval of this plan and specification shall be void if the applicant does not see the violation of any City ordinance or state law.

DATE: 4-3-01
4-3-01

steps of toll

Jud. Roca
7473 Highway
SAC to CA 95831
916 428-6966

Sacramento Building Division

APR 17 2001

ISSUED

15' x 25'
80' perimeter ft.
375 sq. ft.
3' 6" Deep

pool to be:

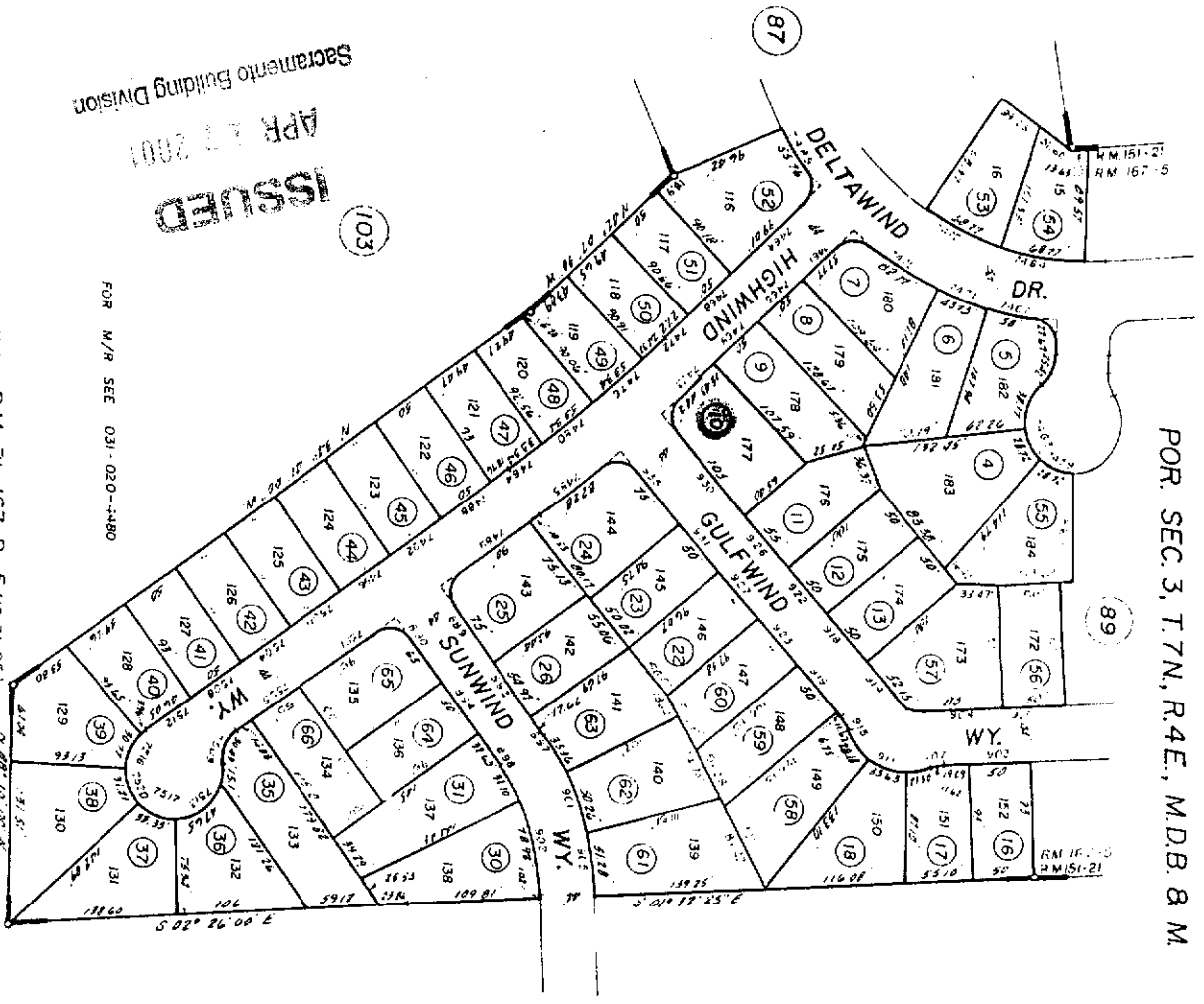
- Equipment to Be:
- 1- 1/2 hp main pump STA-Rite
 - 1- 3/4 hp water fall pump STA-Rite
 - 1- 3/4 hp pool sweep pump Gould
 - 1- 300 ~~g~~ filter STA-Rite (cart type)
 - 1- Skimmer swim cap
 - 2- 220V Time clocks in automatic
 - 1- Polaris pool sweep
 - 1- American 500 watt light

FOR THE CITY OF SACRAMENTO, CALIFORNIA, I HEREBY CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT COPY OF THE ORIGINAL AS FILED IN THE OFFICE OF THE CITY CLERK, SACRAMENTO, CALIFORNIA, ON APRIL 17, 2001.

CITY CLERK

POR. SEC. 3, T.7N., R.4E., M.D.B. & M.

031-88



ISSUED
 APR 17 2001
 Sacramento Building Division

FOR M/R SEE 031-020-1480

Por. Resub. Della Park Hills, R.M. Bk. 167, Pg. 5 (12-71-85)
 Por. Della Park Hills, R.M. Bk. 151, Pg. 21 (14-22-83)

CITY OF SACRAMENTO
 Assessor's Map Bk. 031-Pg. 88
 County of Sacramento, Calif.

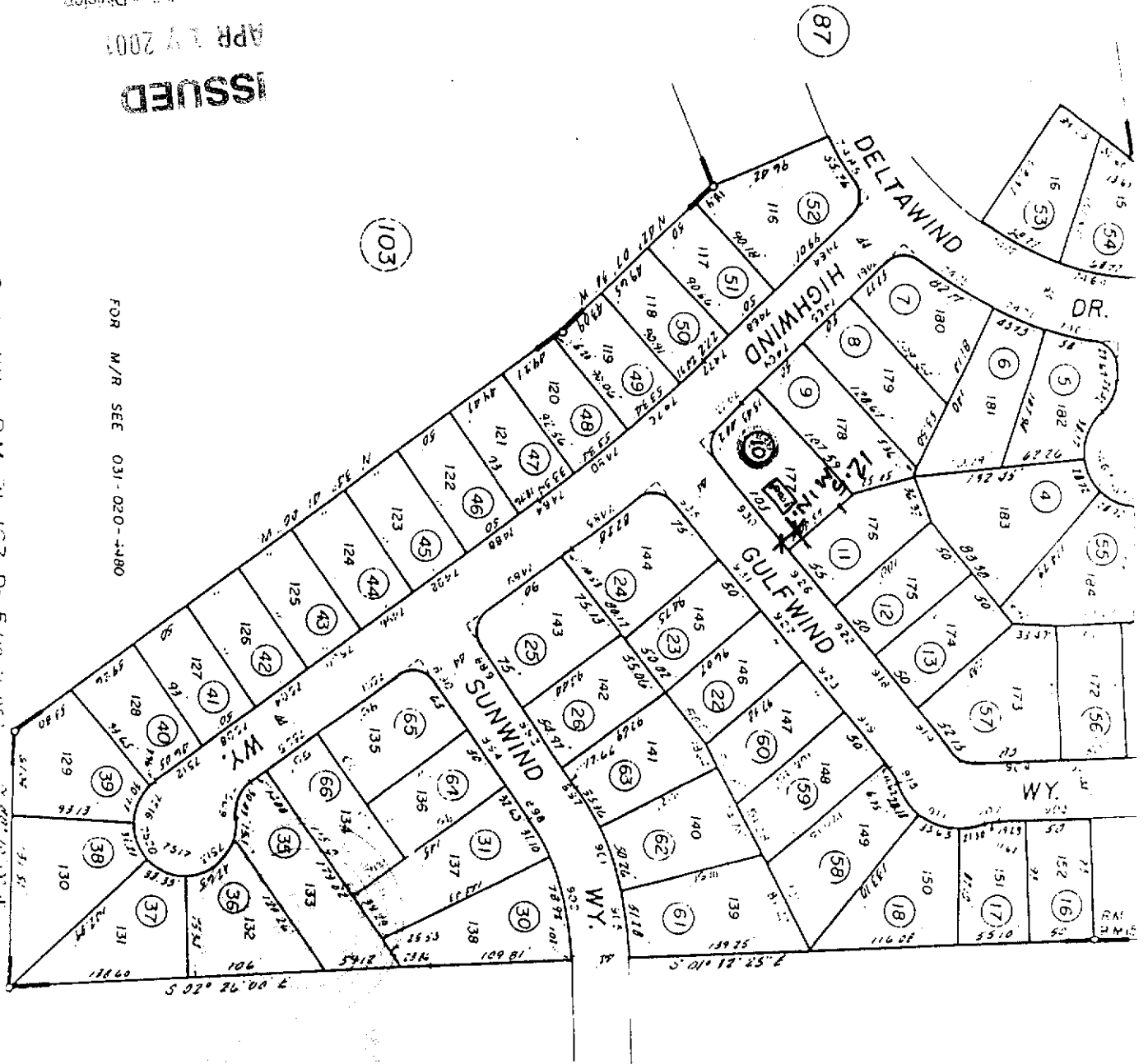
Secramento Building Division

APR 17 2001

ISSUED

FOR M/R SEE 031-020-1480

Box Ranch Delta Park Hills RM 5K 167, Pn 5 (12 51 85)



11

Judi Ruc
7473 Highway WY Sac. CA 95831

CITY OF SACRAMENTO

SUBMIT TWO COPIES

THIS COPY SHALL BE ON JOB SITE AT ALL TIMES

CONTRACTOR/OWNER: _____ JOB ADDRESS: _____ LOAD CALCULATION - N.E.C. 220-30

NUMBER: _____ ITEM: _____ WATTS: _____ TOTAL SQ. FT. _____

1680 Sq. ft @ 3 watts per sq. ft. 5040 Air conditioning example (Not heat pump)

5 20 Amp. Appliance circuits @ 1,500 watts each 7500 Compressor 20 amps

1 Range (Nameplate Rating = N.P.R.) 3600 Fan 5 amps

1 Oven (N.P.R.) 4800 Unit Total Load - 25 amps x 240V

1 Cooking Units (N.P.R.) 1200 Electric Furnace @ N.P.R. - 6,000 watts X 65% = 3900 Watts

1 Water Heater (N.P.R.) 1200 Use 6000W, since it is larger.

1 Dishwasher (N.P.R.) 480 Heat Pump Note:

1 Disposal (N.P.R.) 1500 Be careful when doing load calculations where heat pumps are installed. The load for most heat pumps that are equipped with auxiliary heat strips will be larger under the demand for heat. For the purposes of load calculations only, on heat pumps, use 100% of the heat pump compressor and fans and 65% of auxiliary heat load to show total heat pump load.

1 Washer [1500 watts min. - N.E.C. 220-16(b)] 5000

1 Dryer [5000 watts min. or N.P.R. if larger] N.E.C. 220-181 5000

1 Meters (N.P.R.) 2300 Heat Pump Example

1 Other (N.P.R.) 500 Compressor 20 Amps

1 Other (N.P.R.) 2500 Fans 5 amps

1 Air Conditioning Equipment Sub-Total = 35620

1 Air Conditioning [cooling @ (N.P.R. X 100%)] = 10,000 (Less 1st 10KW) - 10,000 @100% = 10,000 Watts

1 Electrical Heating @ (N.P.R.) X 65% = 10277

1 Heat pump (compressor & fans) X 100% = 6000

1 Aux. heat strips (or elect. furnace) X 65% = 26247

1 Total Heat Pump Load = 26247

1 Total Service Load = 26247

1 Total Heat Pump Load = 26247

1 Service Size 200

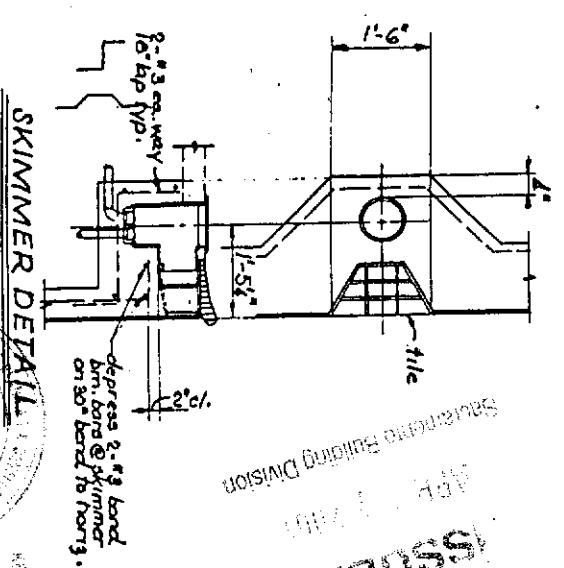
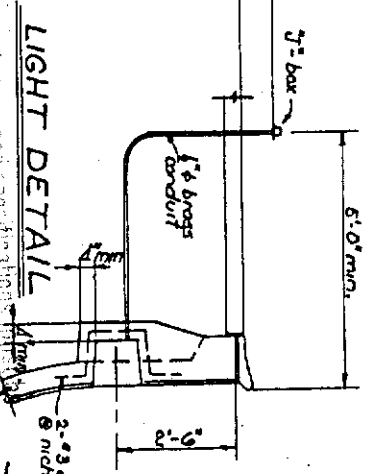
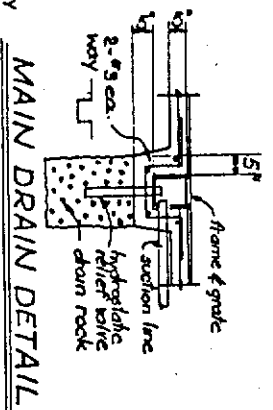
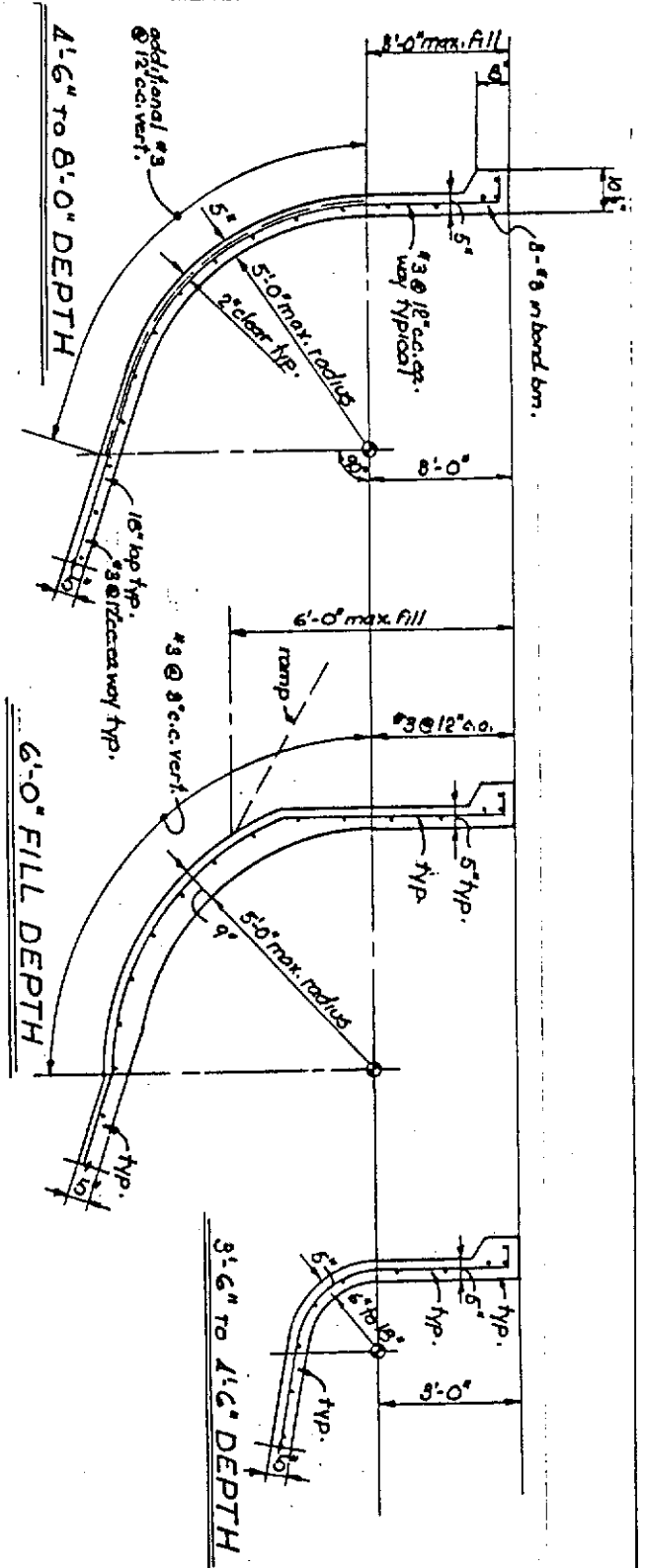
NOTE = AMPS X CIRCUIT VOLTAGE = WATTS

ISSUED
APR 17 2007
Sacramento Building Division

SWIMMING POOL REBAR SCHEDULE

KENNETH VENOLIA
 STRUCTURAL ENGINEER #948
 SACRAMENTO, CALIFORNIA

SOIL TYPE	POOL DEPTH	BASE RADIUS	WALL THICKNESS	VERT. BARS	BOTTOM THICKNESS	HORIZ & BOT. BARS
Non Expansive	3'-6" to 4'-6"	6" to 18"	5" to 5'-0"	# 3 @ 12" c.c.	5" to 5'-0"	# 3 @ 12" c.c.
Expansive	4'-6" to 8'-0"	18" to 5'-0"	5" to 5'-0"	# 3 @ 6" c.c.	5" to 5'-0"	# 3 @ 12" c.c.
Addc or Expansive	3'-6" to 4'-6"	6" to 18"	18" to 5'-0"	# 3 @ 6" c.c.	6" to 6'-0"	# 3 @ 12" c.c.
Expansive	4'-6" to 8'-0"	18" to 5'-0"	18" to 5'-0"	# 3 @ 6" c.c.	6" to 6'-0"	# 3 @ 12" c.c.



Sacramento Building Division
 APR 1 1980
 SCHEDULE



Swimming Pool Calculations Example

July 18, 1993

3.00 = Swing Depth(ft)	0.58 = sin	3.000 = f'(cpsi)
5.58 = Swing Radius(ft)	0.87 = cos	150 = Conc Density(pct)
8.58 = Total Depth(ft)	3.04 = X(ft)	0.15 = As(.0018)min
7.00 = Wall Thick(in)	5.27 = Y(ft)	4.81 = d(in)
6.88 = Rad to Earth(ft)	0.274 = r1(ft)	0.236 = K(k-ft)
19.00 = Bond Bw Width(in)	0.237 = rx(ft)	5.47 = M(k-ft) allow
12.00 = Bond Bw net(in)	5.03 = x'(ft)	
12.00 = Bond Bw Depth(in)	1.99 = c.g. Wall Curve	
30.00 = Angle Repose	8.27 = depth(ft) for (Moment)	
45.00 = Eq Fluid Press(pct)		
87.58 = Wall lb/ft		

Item Weight(lb) x arm(ft) = Moment(k-ft)

Bond Bw	150.00	3.54	0.53
Wall hi	262.50	2.75	0.72
Wall low	530.69	1.99	1.06
M(Sum)	2.31		
M(Soil)	4.24		
M(Net)	1.93		

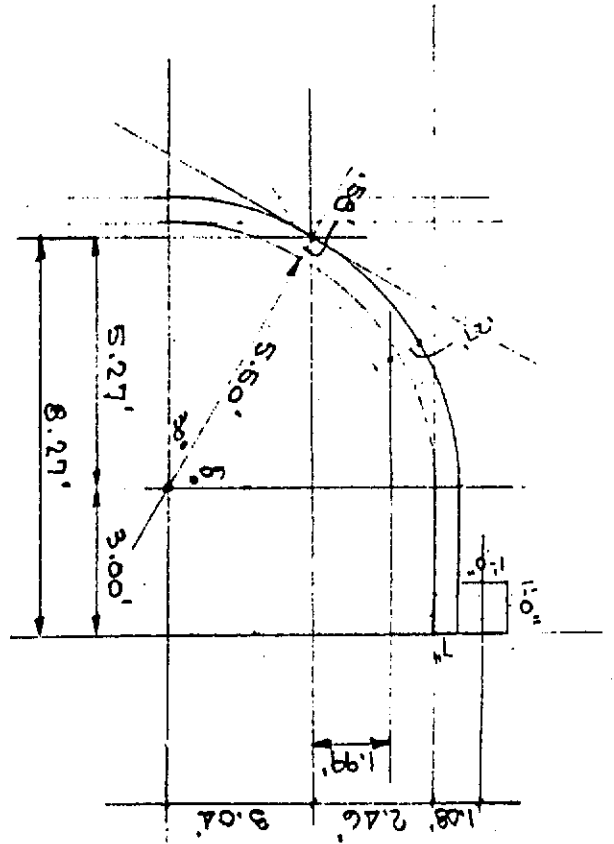
0.23 = As req
5.79 = #3 spcg(in) req
Use #3 @ 4" c.c.

$\sin 60^\circ = .866$
 $\cos 60^\circ = .500$
 $6.08 \times \sin 60^\circ = 5.27'$
 $6.08 \times \cos 60^\circ = 3.04'$
 c.g. wall curve = see below
 $60^\circ = \pi/3 \text{ RAD}$

$M_{soil} = ASD^3/6 = 45 \times 8.27^3/6 = 4.24k$
 Eq Fluid Pressure = 45 #/ft^3
 $@ d = 8.27'$

$M_{bond bw} = 150 \times 3.54$
 $wall = 3' \times .0018 \times 2.75$
 $wall = 2\pi \times 5.19 \times \frac{3}{8} \times .0018 \times 1.99$
 $M_{net} = 4.24 - 2.31 = 1.93k$

$d = 7" - 2" - 3/16" = 4.81"$
 $\Delta y = 1.91 / 1.76 \times 4.81" = .23"$
 $\# 3 @ 4" c.c. = 11 \times 3 = .33 \text{ #}$
 $M_c = .23 \times 6 = 4.81^2 = 5.47k > 1.93k$



$y_1 = R(1 - \frac{\sin \alpha}{\alpha}) = 6.08(1 - \frac{\sin 30}{\frac{2\pi \times 30}{360}}) = .274'$
 $x = (1.74 \times \cos 30) = 1.237$
 $x = 6.08 \times \cos 30 = 5.03'$
 $x = 6.08 \times \cos 30 - 1.237 = 5.03'$
 $1.99'$

ISSUED

APR 17 2001

Sacramento Building Division



Kenneth Venolia

APR 17 2001

ISSUED



Kenneth Venolia



Swimming Pool Calculations for (Non-Expansive Soil)
July 18, 1993

Item	Weight(lb)	x	arm(ft)	Moment(k-ft)
Bond Bm	57.29	2.94	0.17	0.17
Wall h1	187.50	2.50	0.47	0.47
Wall l0w	340.88	1.77	0.60	0.60

			M(Sum)	1.24
			M(Soil)	2.27
			M(Net)	1.03

Use #3 @ 6" c.c. 6.32 = #3 spcg(in)req

Swimming Pool Calculations for (Non-Expansive Soil)
July 18, 1993

3.00 = Swing Depth(ft)	0.50 = sin	3,000 = f'c(psi)
5.00 = Swing Radius(ft)	0.87 = cos	150 = Conc Density(pct)
8.00 = Total Depth(ft)	2.71 = X(ft)	0.11 = As(.0018)min
5.00 = Wall Thick(in)	4.69 = Y(ft)	2.81 = d(in)
5.42 = Rad to Earth(ft)	0.244 = r1(ft)	0.236 = K(k-ft)
10.50 = Bond Bm Width(in)	0.211 = rx(ft)	1.87 = M(k-ft) allow
5.50 = Bond Bm net(in)	4.48 = x'(ft)	
18.00 = Bond Bm Depth(in)	1.77 = c.g. Wall Curve	
30.00 = Angle Repose	7.69 = depth(ft) for (Moment)	
30.00 = Eq Fluid Press(pct)		
62.50 = Wall lb/ft		

Swimming Pool Calculations for (Non-Expansive Soil)
July 18, 1993

Item	Weight(lb)	x	arm(ft)	Moment(k-ft)
Bond Bm	57.29	1.19	0.07	0.07
Wall h1	187.50	0.75	0.14	0.14
Wall l0w	111.81	0.63	0.07	0.07

			M(Sum)	0.28
			M(Soil)	0.51
			M(Net)	0.23

Use #3 @ 12" c.c. 28.76 = #3 spcg(in)req

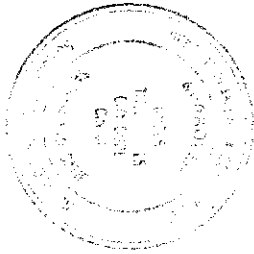
Swimming Pool Calculations for (Non-Expansive Soil)
July 18, 1993

3.00 = Swing Depth(ft)	0.50 = sin	3,000 = f'c(psi)
1.50 = Swing Radius(ft)	0.87 = cos	150 = Conc Density(pct)
4.50 = Total Depth(ft)	0.96 = X(ft)	0.11 = As(.0018)min
5.00 = Wall Thick(in)	1.66 = Y(ft)	2.81 = d(in)
1.92 = Rad to Earth(ft)	0.086 = r1(ft)	0.236 = K(k-ft)
10.50 = Bond Bm Width(in)	0.075 = rx(ft)	1.87 = M(k-ft) allow
5.50 = Bond Bm net(in)	1.59 = x'(ft)	
18.00 = Bond Bm Depth(in)	0.63 = c.g. Wall Curve	
30.00 = Angle Repose	4.66 = depth(ft) for (Moment)	
30.00 = Eq Fluid Press(pct)		
62.50 = Wall lb/ft		

Sacramento Building Division

APR 17 2004

ISSUED



REGISTERED PROFESSIONAL ENGINEER
KENNETH V. VENOLIA
No. S948
Exp. 12-31-04
STATE OF CALIFORNIA
STRUCTURAL

Kenneth Venolia



Item	Height(lb)	x	arm(ft)	=	Moment(k-ft)
Bond Bw	36.46	2.94	0.11		
Wall hi	262.50	2.50	0.66		
Wall low	484.87	1.83	0.09		
				M(Sum)	1.65
				M(Soil)	4.81
				M(Net)	3.16
				As reg	0.37
				#3 spcg(in)req	3.54
				Use #3 @ 3" c.c.	

3.00 = Swing Depth(ft)	0.50 = sin	3.000 = f'(c(psi))
5.00 = Swing Radius(ft)	0.87 = cos	150 = Conc Density(pcf)
8.00 = Total Depth(ft)	2.79 = X(ft)	0.15 = As(.0018)min
7.00 = Wall Thick(in)	4.84 = Y(ft)	4.81 = d(in)
5.58 = Rad to Earth(ft)	0.252 = r1(ft)	0.236 = K(k-ft)
10.50 = Bond Bw Width(in)	0.218 = rx(ft)	5.47 = M(k-ft) allow
3.50 = Bond Bw net(in)	4.62 = x'(ft)	
10.00 = Bond Bw Depth(in)	1.83 = c.g. Wall Curve	
30.00 = Angle Repose	7.84 = depth(ft) for (Moment)	
60.00 = Eq Fluid Press(pcf)		
87.50 = Wall lb/ft		

Swimming Pool Calculations for (Expansive Soil) July 10, 1993

Item	Height(lb)	x	arm(ft)	=	Moment(k-ft)
Bond Bw	46.88	1.19	0.06		
Wall hi	225.00	0.75	0.17		
Wall low	137.44	0.65	0.09		
				M(Sum)	0.31
				M(Soil)	1.06
				M(Net)	0.75
				As reg	0.11
				#3 spcg(in)req	11.88
				Use #3 @ 6" c.c.	

3.00 = Swing Depth(ft)	0.50 = sin	3.000 = f'(c(psi))
1.50 = Swing Radius(ft)	0.87 = cos	150 = Conc Density(pcf)
4.50 = Total Depth(ft)	1.00 = X(ft)	0.13 = As(.0018)min
6.00 = Wall Thick(in)	1.73 = Y(ft)	3.01 = d(in)
2.00 = Rad to Earth(ft)	0.090 = r1(ft)	0.236 = K(k-ft)
10.50 = Bond Bw Width(in)	0.078 = rx(ft)	3.43 = M(k-ft) allow
4.50 = Bond Bw net(in)	1.65 = x'(ft)	
10.00 = Bond Bw Depth(in)	0.65 = c.g. Wall Curve	
30.00 = Angle Repose	4.73 = depth(ft) for (Moment)	
60.00 = Eq Fluid Press(pcf)		
75.00 = Wall lb/ft		

Swimming Pool Calculations for (Expansive Soil) July 10, 1993