

SWIMMING POOL AND SPA PACKET

SWIMMING POOL AND SPA PACKET



Permit Application

Today's Date: _____

Permit #: _____

TYPE OF PERMIT

- | | |
|--|--|
| <input type="checkbox"/> RESIDENTIAL (RS) | <input type="checkbox"/> PLUMBING (PB) |
| <input type="checkbox"/> NON-RESIDENTIAL (NR) | <input type="checkbox"/> MECHANICAL (ME) |
| <input type="checkbox"/> GRADING (Preliminary) (GA) | <input type="checkbox"/> ELECTRICAL (EL) |
| <input type="checkbox"/> GRADING (Precise) (GB) | <input type="checkbox"/> SWIMMING (SW) |
| <input type="checkbox"/> LANDSCAPING (LS) | <input type="checkbox"/> SOLAR (SL) |
| <input type="checkbox"/> RESIDENTIAL TRACT (RT)* | <input type="checkbox"/> DEMOLITION (DM) |
| <input type="checkbox"/> FENCE, WALL, RETAINING WALL (RW)* | <input type="checkbox"/> SIGN (SB) |
| | <input type="checkbox"/> OTHER _____ |
- *(Separate attachment required for multiple submittal)

PROJECT INFORMATION

Address of Project: _____
Address City Zip

Legal Description: _____ Assessors Parcel Number (APN): _____

Location of Site (Decimal Degrees): _____ / _____
Latitude Longitude

Project Description: _____

STRUCTURE SIZE: _____ / _____ / _____ / _____ / _____
Total Basement 1st Floor 2nd Floor 3rd Floor

GARAGE SIZE SQUARE FEET: _____ SITE ACREAGE: _____

Current Related Permits: _____

CONTACT INFORMATION

Owner Name: _____ Phone Number: _____

Owner Address: _____
Address City Zip

Contractor: _____ License #: _____

Address: _____ Phone Number: _____

Agent/Contact Person: _____ Affiliation: _____

Phone Number: _____ Fax: _____ Email: _____

ARCHITECT: _____ / _____ / _____ / _____ / _____
Name License # Street# City Phone #

ENGINEER: _____ / _____ / _____ / _____ / _____
Name License # Street# City Phone #

SOILS ENGINEER: _____ / _____ / _____ / _____ / _____
Name License # Street# City Phone #

Permit Application

Applicable to Grading Permits ONLY

ENGINEERING

GEOLOGIST: _____ / _____ / _____ / _____ / _____
 Name License Street# City Phone#

CUBIC YARDAGE: CUT: _____ FILL: _____ EXPORT: _____

PROJECT ACERAGE: _____ WATER DISCHARGE I.D. NUMBER (WDID): _____

TOTAL SITE ACREAGE: _____ DISTRIBUTED SITE ACREAGE: _____

This section must be completed by County Property Permits (CPP) staff for grading & landscape applications

- CPP PERMIT NOT REQUIRED NO DECISION-ADDITIONAL INFORMATION NEEDS TO BE SUBMITTED
- CPP PERMIT FOR ENCROACHMENT PERMIT IS REQUIRED
- CPP APPLICATION HAS BEEN SUBMITTED CPP STAFF NAME: _____

PERMIT NUMBER: _____ DATE AND INITIAL: _____

I CERTIFY NO WORK SHALL OCCUR IN COUNTY RIGHT OF WAY AND/OR EASEMENTS.

 Signature Date

Applicable to Sign Permits ONLY

TENANT/BUSINESS NAME: _____

OCCUPANCY PERMIT NUMBER: _____

SIGNAGE Wall Sign Freestanding Single Face Double Face Illuminated Non-Illuminated
 DETAIL:

Height: _____ Length: _____ Sq Ft: _____ Ground Clearance: _____

ADDITIONAL INFORMATION (i.e. Sign Copy):

DECLARATION

DECLARATION:

I declare to the best of my knowledge that the information I have presented on this form and attached material is true and correct. I also understand that additional data and information may be required prior to final approval of this application and that insufficient information/documents may delay the plan preview process.

 Print Name Signature Date

STAFF USE ONLY

OTC PLAN CHECK PLANNING APPLICATION PCRA CE **SETBACKS**

ZONING: _____ Coastal ACTUAL: _____ REQUIRED: _____

APN: _____ Flood Plain FRONT _____

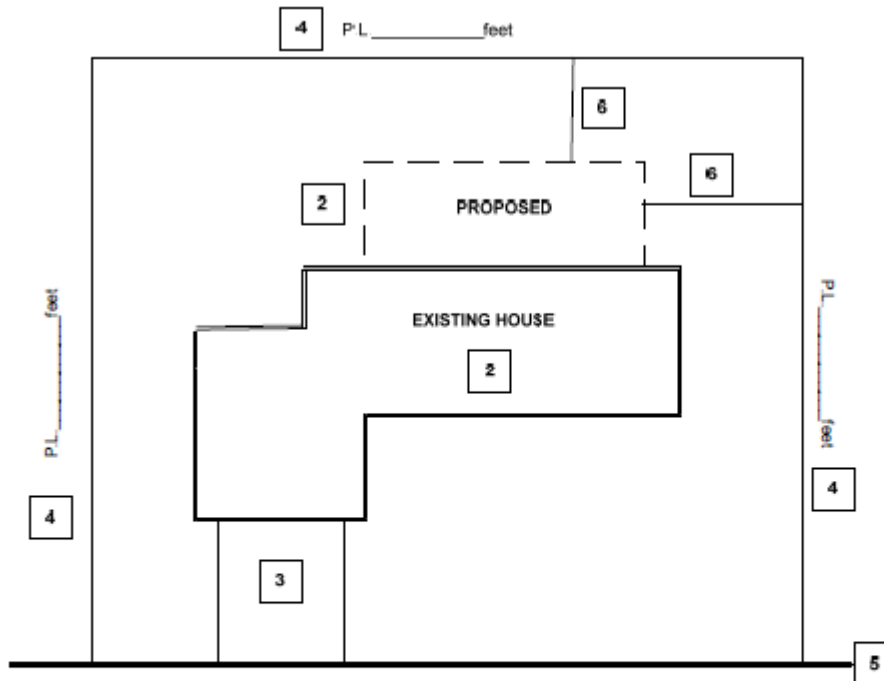
LEGAL: _____ SIDE (R) _____

PA/CP: _____ Required SIDE (L) _____

PLANNER'S NAME: _____ REAR _____

APPLICATION COMPLETE/
 CUSTOMER CARE STAFF NAME INITIAL: _____ DATE: _____
 (per related checklist)

Typical Plot Plan Guidelines



STREET NAME



Scale: _____ = _____

1. Project Location information (i.e. APN/ Tract and Lot).
2. Building footprints and rooflines – location and use of all existing and proposed structures and landscape areas, including size, dimensions and distances to property lines.
3. Access – including driveways, existing and proposed.
4. Property lines – include and label all building site dimensions and ownership boundaries.
5. Ultimate street right-of-way lines – including name, location, size and distance from property lines, and location of sidewalks, curb and gutter, and edge of pavement, public or private.
6. Show setbacks from property lines.
7. Easements – including location, purpose, and dimensions. (i.e. Flood Plain, Utilities, Ingress/Egress, Open Space Conservation / Scenic, etc.)
8. Fencing and Walls – include retaining walls, existing and proposed, with heights from grade inside the outside at all turning points and the center points of all straight sections.

Building Permit Plan Check Process for Pools /Spas

To ensure that construction complies with building regulations and standards, the County requires building permits to be obtained before construction or change in occupancy can begin. Building plans are required for permit issuance.

Plans submitted for building permits are reviewed for compliance with County Building Ordinances (Building, Plumbing, Mechanical and Electrical Codes) and State building regulation such as Energy Conservation Regulations and Handicapped Accessibility Standards.

The plan check process is summarized below to help you get acquainted with the building permit and plan check process:

1. Applicant submits Building Permit Application and Pool/Spa Questionnaire at the Development Processing Center (DPC).
2. Applicant submits 3 sets of plans which consist of the following (DPC):
 - Site plan showing all existing and new structures with set-back dimensions.
 - Cross-section in both directions to 5' (minimum) beyond property lines including all existing slopes and retaining wall, if any.
 - Pool/ Spa plan including structural details and material specifications.
 - Structural Calculations if non-standard plan used.
 - Soil Report required if the pool is located less than 15' from the top of a slope or 8' from the toe of a slope where the slope is steeper than one unit vertical in three units horizontal (1 to 3).
3. Applicant obtains Zoning clearance at DPC prior to permit issuance.
4. Pay Plan Check Fee at DPC Cashier.
5. Typical 1st Plan Check will be completed in approximately 5 working days if the **County of Orange approved standard pool plans** are used. For non-standard plans, 1st Plan Check will be completed in approximately 15 working days.
6. Applicant re-submits corrected plans for re-check.
7. Typical 1st Plan **Re-Check** will be completed in approximately 3 working days if the **County of Orange approved standard pool plans** are used. For non-standard plans, 1st Plan Re-Check will be completed in approximately 10 working days.
8. After plans are approved and all clearances are obtained, County will approve with three (3) sets of plans. One (1) set for the job site and one (1) for office archive. One (1) additional set of plans is required for Assessor's office.
 - Building permit issuance requires Workmen Compensation Insurance.
 - Building permit issuance required California licensed contractor ID.
 - Building permit issuance may be issued as Owner-Builder.
9. Applicant will call County Inspection Office to schedule inspection.

Swimming Pool/Spa

APPLICATION QUESTIONNAIRE (TO BE COMPLETED BY APPLICANT)

Building Permit/Plan Check Number: _____

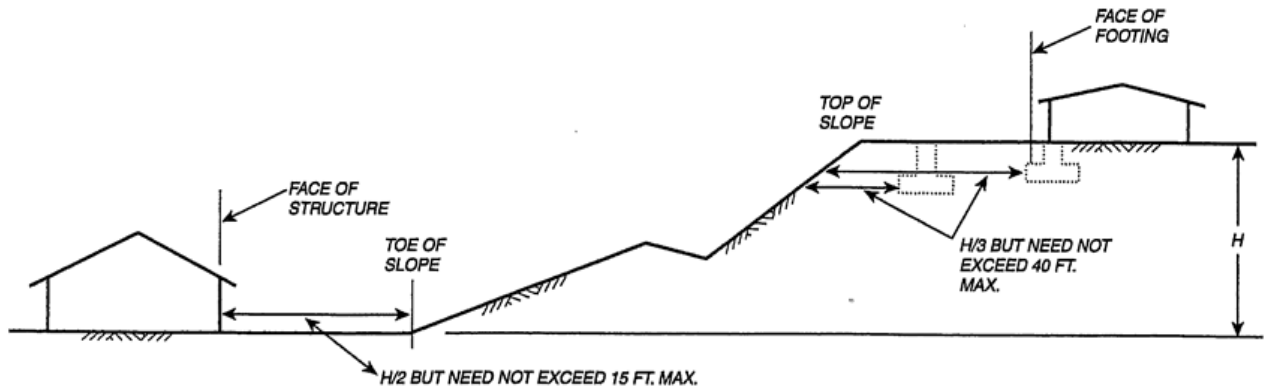
		YES	NO
1.	Is the Pool/Spa for a single-family dwelling?	<input type="checkbox"/>	<input type="checkbox"/>
2.	Do you have an approved Orange County Standard Plans?	<input type="checkbox"/>	<input type="checkbox"/>
	Indicate number: <input style="width: 150px;" type="text"/>		
3.	Do you have an approved Erosion and Sediment control plan approved by Building Permit Services?	<input type="checkbox"/>	<input type="checkbox"/>
4.	Do you have an approved fire ant form?	<input type="checkbox"/>	<input type="checkbox"/>
5.	Does the project site have an active grading permit?	<input type="checkbox"/>	<input type="checkbox"/>
6.	Is the project located in a floodplain?	<input type="checkbox"/>	<input type="checkbox"/>
7.	Is the project site served by a septic system?	<input type="checkbox"/>	<input type="checkbox"/>

Declaration:

I declare that the foregoing is true and correct to the best of my knowledge. I understand that incorrect answer will cause delay to inspection approval and issuance of a stop work order.

SITE ADDRESS	SIGNATURE OF APPLICANT	DATE
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2016 California Building Code Soils and Foundation



For SI: 1 foot = 304.8 mm.

**FIGURE 1808.7.1
FOUNDATION CLEARANCES FROM SLOPES**

1808.7.1 Building clearance from ascending slopes. In general, buildings below slopes shall be set a sufficient distance from the slope to provide protection from slope drainage, erosion and shallow failures. Except as provided for in Section 1808.7.5 and Figure 1808.7.1, the following criteria will be assumed to provide this protection. Where the existing slope is steeper than one unit vertical in one unit horizontal (100-percent slope), the toe of the slope shall be assumed to be at the intersection of a horizontal plane drawn from the top of the foundation and a plane drawn tangent to the slope at an angle of 45 degrees (0.79 rad) to the horizontal. Where a retaining wall is constructed at the toe of the slope, the height of the slope shall be measured from the top of the wall to the top of the slope.

1808.7.2 Footing setback from descending slope surface. Footings on or adjacent to slope surfaces shall be founded in firm material with an embedment and set back from the slope surface sufficient to provide vertical and lateral support for the footing without detrimental settlement. Except as provided for in Section 1808.7.5 and Figure 1808.7.1, the following setback is deemed adequate to meet the criteria. Where the slope is steeper than 1 unit vertical in 1 unit horizontal (100-percent slope), the required set-back shall be measured from an imaginary plane 45 degrees (0.79 rad) to the horizontal, projected upward from the toe of the slope.

1808.7.3 Pools. The setback between pools regulated by this code and slopes shall be equal to one-half the building footing setback distance required by this section. That portion of the pool wall within a horizontal distance of 7 feet (2134 mm) from the top of the slope shall be capable of supporting the water in the pool without soil support.

Swimming Pool/Spa Note Sheet

1. Pool and/or spa shall be completely enclosed by 5' minimum high fencing and gates with no openings greater than 4". Gates to be self-closing and self-latching with latch a minimum of 5' high and must be swinging outward.
2. Glazing within 5' of water edge shall be tempered.
3. Pool equipment not to exceed noise level required by Orange County Noise Ordinance Section 4-6-5 of Division 6 Orange County Codified Ordinance.
4. Special Inspection is required on pools/spas during gunite or shotcrete placement in accordance with 2016 CBC Sections 1705.3, 1908 and Table 1705.3.
5. Concrete, gunite and shotcrete used in pools/spas construction shall be resistant to sulfates per 2016 CBC Chapter 19 and ACI 318 Table 19.3.1.1. Use $F'c=4500$ psi 28 day compressive strength with Type V Cement (maximum water/cement ratio = 0.45 per ACI Table 19.3.2.1) unless otherwise specify by soil report.
6. For expansive soils, use an Equivalent Fluid Pressure of 100 PCF (for level lot) and 125 PCF (for slopes) when soils report is not available.
7. All electrical shall be in conformance with the 2016 CEC.
8. Pool shell and perimeter paved and unpaved surfaces shall be bonded in accordance with CEC 680.26(B). Bonding to perimeter surfaces shall be provided as specified in CEC 680.26(B)(2)(a) or (2)(b) and shall be attached to the pool reinforcing steel or copper conductor grid at a minimum of four (4) points uniformly spaced around the perimeter of the pool.
9. Pool/spa water heater and gas piping installation to be in conformance with the 2016 CPC.
10. Two return drains required, one drain at the bottom and one drain at the side 2" within bottom, minimum 4' apart with anti-vortex covers.
11. Contractor is advised to refer to Section 115928 of the California Health and Safety Code for proper installation of the pool drain system.
12. All drains, grates, protective devices & skimmer cover for swimming pools/spas must be approved by this agency prior to installation.
13. All equipment shall be installed per manufacturers' recommendations and in accordance with the County of Orange regulations.
14. Prior to steel inspection, Building Inspection will require a memo from the Soil/Geotechnical Engineer stating "Pool excavation is suitable for the support of the structure and the design assumptions are considered adequate."
15. Any pool or spa heating system or equipment shall be installed only if the manufacturer has certified the system per 2016 California Energy Code section 110.4. Cover shall be installed if outdoor pool/spa has a heat pump or gas heater.
16. Dirt and construction debris shall go to a legal dump site.
17. Property markers must be visible at the time of inspection or a survey will be required.

NOTICE COUNTY PROPERTY PERMIT REQUIRED

CURB CUTS, DRIVEWAYS, EXAVATIONS, STORAGE OF MATERIAL OR ANY REPAIR WORK IN, OVER, ALONG A CROSS OR THROUGH ANY HIGHWAY WITHOUT FIRST OBTAINING A PERMIT TO DO SO FROM OC PUBLIC WORKS | OC PLANNING IS AN UNLAWFUL ACT. Sec 6-1-2 Orange County Code (may take 4-6 weeks to obtain permit).



Special Inspection Program and Designation of Special Inspectors

SPECIAL INSPECTIONS (Only checked items are required)	
INSPECTION ITEMS	SPECIAL INSPECTOR(S) NAME, PHONE NUMBER, REGISTRATION #
<input type="checkbox"/> Concrete (Design Mix, Form Work, Placement, etc., per table 1705.3)	
<input type="checkbox"/> Erection of Pre-Cast Concrete Members	
<input type="checkbox"/> Bolts Installed in Concrete	
<input type="checkbox"/> Reinforcing Steel and Pre-Stressing Steel Tendons	
<input type="checkbox"/> Structural Welding/Rebar Welding	
<input type="checkbox"/> High-Strength Bolting/Material Verification	
<input type="checkbox"/> Steel Frame Joint Details	
<input type="checkbox"/> All Masonry Construction	
<input type="checkbox"/> Sprayed Fire-Resistive Materials	
<input type="checkbox"/> Shotcrete (Curing Temperature, Design Mix, Placement, Strength etc. per table 1705.3)	
<input type="checkbox"/> Soils (Excavation, Fill, etc. per table 1705.6)	
<input type="checkbox"/> Smoke-Control System	
<input type="checkbox"/> Driven Piles per Table 1705.7	
<input type="checkbox"/> Cast in Place Piles per Table 1705.8	
<input type="checkbox"/> Mastic and Intumescent Fire-Resistant Coatings	
<input type="checkbox"/> Exterior Insulation and Finish Systems (EIFS)	
<input type="checkbox"/> Wood for High-Load Diaphragms	
<input type="checkbox"/> Others	
<input type="checkbox"/> Others	
<input type="checkbox"/> Others	
<input type="checkbox"/> Others	

DECLARATION BY OWNER OR ARCHITECT/ENGINEER OF RECORD:

I, the Owner Engineer or Architect of record, declare that the above listed Special Inspector(s) is/are hired by me.

_____ **Print Name**

_____ **Signature**

_____ **Date**

NPDES Notes

Notes must be shown as worded, on the title sheet of the plan.

1. In the case of emergency, call _____
at Work Phone # _____
or Home Phone # _____
2. Sediment from areas disturbed by construction shall be retained on site using structural controls to the maximum extent practicable.
3. Stockpiles of soil shall be properly contained to minimize sediment transport from the site to streets, drainage facilities or adjacent properties via runoff, vehicle tacking, or wind.
4. Appropriate BMP's for construction-related materials, wastes, spills shall be implemented to minimize transport from the site to streets, drainage facilities, or adjoining properties by wind or runoff.
5. Runoff from equipment and vehicle washing shall be contained at construction sites unless treated to reduce or remove sediment and other pollutants.
6. All construction contractor and subcontractor personnel are to be made aware of the required best management practices and good housekeeping measures for the project site and any associated construction staging areas.
7. At the end of each day of construction activity all construction debris and waste materials shall be collected and properly disposed in trash or recycle bins.
8. Construction sites shall be maintained in such a condition that an anticipated storm does not carry wastes or pollutants off the site. Discharges of material other than stormwater only when necessary for performance and completion of construction practices and where they do not: cause or contribute to a violation of any water quality standard; cause or threaten to cause pollution, contamination, or nuisance; or contain a hazardous substance in a quantity reportable under Federal Regulations 40 CFR Parts 117 and 302.
9. Potential pollutants include but are not limited to: solid or liquid chemical spills; wastes from paints, stains, sealants, glues, limes, pesticides, herbicides, wood preservatives and solvents; asbestos fibers, paint flakes or stucco fragments; fuels, oils, lubricants, and hydraulic, radiator or battery fluids; fertilizers, vehicle/equipment wash water and concrete wash water; concrete, detergent or floatable wastes; wastes from any engine/equipment steam cleaning or chemical degreasing and super chlorinated potable water line flushing. During construction, permittee shall dispose of such materials in a specified and controlled temporary area on-site, physically separated from potential stormwater runoff, with ultimate disposal in accordance with local, state and federal requirements.
10. Dewatering of contaminated groundwater, or discharging contaminated soils via surface erosion is prohibited. Dewatering of non-contaminated groundwater requires a National Pollutant Discharge Elimination System Permit from the respective State Regional Water Quality Control Board.
11. Graded areas on the permitted area perimeter must drain away from the face of slopes at the conclusion of each working day. Drainage is to be directed toward desilting facilities.
12. The permittee and contractor shall be responsible and shall take necessary precautions to prevent public trespass onto areas where impounded water creates a hazardous condition.
13. The permittee and contractor shall inspect the erosion control work and insure that the work is in accordance with the approved plans.
14. The permittee shall notify all general contractors, subcontractors, material suppliers, lessees, and property owners: that dumping of chemicals into the storm drain system or the watershed is prohibited.
15. Equipment and workers for emergency work shall be made available at all times during the rainy season. Necessary materials shall be available on site and stockpiled at convenient locations to facilitate rapid construction of temporary devices when rain is imminent.
16. All removable erosion protective devices shall be in place at the end of each working day when the 5-Day Rain Probability Forecast exceeds 40%.
17. Sediments from areas disturbed by construction shall be retained on site using an effective combination of erosion and sediment controls to the maximum extent practicable, and stockpiles of soil shall be properly contained to minimize sediment transport from the site to streets, drainage facilities or adjacent properties via runoff, vehicle tracking, or wind.
18. Appropriate BMPs for construction-related materials, wastes, spills or residues shall be implemented and retained on site to minimize transport from the site to streets, drainage facilities, or adjoining property by wind or runoff.

Red Imported Fire Ant

Orange, Los Angeles, and Riverside County Agricultural Commissioners – CDFA – USDA

California Department of Food and Agriculture - RIFA Program

3180 Cridge Street Riverside, CA 92507

PH: (760) 275-0144 FAX: (760) 784-8932

EMAIL: dquimay@cdfa.ca.gov

TO ALL CONCERNED WITH SOIL MOVEMENT IN ORANGE COUNTY AND THE QUARANTINED AREAS OF RIVERSIDE AND LOS ANGELES COUNTIES:

There are quarantines established against the red imported fire ant (RIFA) in all of Orange County and parts of Los Angeles and Riverside Counties (California Code of Regulations 3432 and Code of Federal Regulation 301.81). Articles and commodities regulated include soil; baled hay and baled straw stored in direct contact with ground; plants and sod with roots and soil attached; used soil moving equipment, unless free of all non-compacted soil and any other product, article, or means of conveyance when it is determined by the department or county agricultural commissioner to present hazard of spreading live red imported fire ant and the person in possession has been so notified. It is unlawful to move within or from the quarantine area a commercial shipment of any commodity mentioned, except when certified by the department or county agricultural commissioner in accordance with the regulations.

RIFA Project would certify movement of soil from or within the quarantine area. The inspections are free. Please contact at least 3 days in advance to schedule an inspection, by sending a fax of this document and attached RIFA Form CA-1 (Notification of Intent to Move Soil). Inspection consists of determining if RIFA are present by visual survey or by trapping the area using protein baits (canned lunch meat). Certification for movement of soil within the quarantined area will be based on the severity of RIFA in the general area where the soil is being excavated in conjunction with where the soil is to be moved. RIFA Form CA-1 (attached) may be faxed to RIFA Project office with the appropriate information each time you have soil-moving project. If no RIFA are found at the site of origination, movement is permitted and a certification will be provided stating that the site found negative for RIFA. If RIFA are found at the origination site, movement is prohibited until a pesticide treatment plan is established as required by Project personnel.

The certification requirement for movement of soil would apply to persons dealing in soil movement such as grading, digging, landscaping, and other building projects. If you are unsure as to whether or not your project is subject to these requirements, please fax a copy of RIFA Form CA-1 to (916) 654-0986. We will respond within 3 to 4 business days (Mon-Thu).

Thank you for your cooperation and help in this matter.

I have read and understand this document:

RIFA Compliance Agreement No*:

(print name)

(signature)

Company: _____

Phone #: _____

Address: _____

Date: _____

Job Site Address: _____

Red Imported Fire Ant

It is the responsibility of each person involved in the movement of soil to report sightings of ants.
***We will assign you an identification number (RIFA Compliance Agreement Number) when you fax or mail in your request for an inspection.**

Revised 11/7/11

COOPERATIVE RED IMPORTED FIRE ANT (RIFA) PROJECT

Orange, Los Angeles, and Riverside County Agricultural Commissioners – CDFA – USDA

California Department of Food and Agriculture - RIFA Program

3180 Cridge Street Riverside, CA 92507

PH: (760) 275-0144 FAX: (760) 784-8932

EMAIL: dquimay@cdfa.ca.gov

		Permit #	
RIFA Compliance Agreement #		Issuing City/County	
		Agency:	

Name of Company Requesting Approval: _____

Contact Person: _____

Address: _____ City: _____ Zip: _____

Telephone: _____ Fax: _____

Excavation Location: _____ TB*: _____

Acres: _____

Destination Location: _____ TB*: _____

Acres: _____

Estimated Quantity of Soil (e.g. # Cubic Yards): _____

Anticipated Date of Movement: _____

Urgency Level for Immediate Inspection and Release: [Circle One] High Medium Low

TO BE COMPLETED BY RIFA PROJECT REGULATORY OFFICIAL ONLY:

- Movement of Soil is Permitted.
- Hold Movement Until Site Checked – WE WILL CALL AS SOON AS POSSIBLE TO SCHEDULE INSPECTION DATE AND TIME.

Date Trapped: _____ # of Traps: _____ Trapped by: _____ Acres: _____

Date Picked Up: _____ Comments: _____ PDR #: _____

- Soil Movement is Strictly Prohibited for the Following Reason(s): _____

Name of RIFA Project Regulatory Official: _____ Date: _____

Signature: _____

Rev. 3/1/08

*TB is Thomas Brothers page and grid designation **Please allow 3-4 working days for inspection (Monday – Thursday)

Swimming Pool Demolition Requirements

Demolition of a swimming pool requires preparing the pool for backfilling, and placement and compaction of backfill material.

The procedure is authorized by issuance of a demolition permit which may be obtained at the public counter.

- Break out two minimum 12” diameter or equivalent holes in the pool bottom for drainage. One of the holes in the pool bottom for drainage - One of the holes shall be at the low point in the pool.
- Place a 12” thick layer of pea gravel or #4 rock over the entire bottom of the pool. Decking or coping that is removed from the pool before the gravel/rock is placed. Maximum dimension of broken decking and/or coping may not exceed 12”.
- Continue to backfill the pool with easily compacted “dirty” sand, commonly called fill sand at building supply outlets. Fill with dirty sand to within 30” of the final surface. Ninety percent relative compaction is required which should easily be achieved with hand equipment on 6” thick sand lifts with prudent use of water.
- If hardscape is to be constructed over the pool area, fill sand may be placed up to the subgrade level for the hardscape material.
- If the pool area is to be landscaped, the upper 18” may be backfilled with suitable planting medium.
- Final grading of the area shall be done so as to avoid ponding of irrigation or rainfall.
- The area of the pool backfill will not be suitable for construction such as a room addition until a foundation investigation is performed which will include compaction tests of the backfill.
- Inspections by a Building Inspector will be required of the following aspects of work:
 1. Wiring System to pumps and/or lighting shall be disconnected and all wiring associated with pool shall be removed from conduits or raceways
 2. Gas line shall be disconnected and capped off at meter and equipment.
 3. The “drain” holes at the bottom of the pool must be observed.
 4. The correct backfill rock and sand must be observed.
 5. Finished grading will be inspected for proper drainage.

If the backfill rock and sand are on site in **sufficient** quantity when inspection of the drain hole is made, then no further inspection is required until the backfilling is completed at which time a final inspection will be made. If the backfill material is not on site or the volume is **insufficient**, then an inspection will be necessary to observe placement and compaction of the backfill material.