



# City of Malibu

## Rebuild Process

Yolanda Bundy, MS, PE, CBO, CFCO  
Environmental Sustainability Director  
Building Official

[www.MalibuRebuilds.org](http://www.MalibuRebuilds.org)



CITY OF MALIBU  
**NEW ENVIRONMENTAL  
SUSTAINABILITY DIRECTOR  
& BUILDING OFFICIAL  
APPOINTED**

- **LICENSES:**


- Registered Professional Engineer (Civil)– California License
- Cal OES Safety Assessment Program-Coordinator
- Certified Building Official, International Code Council
- Certified Fire Code Official, International Code Council
- Plans Examiner, International Code Council
- Fire Plans Examiner, International Code Council
- Fire Inspector I, International Code Council
- Fire Inspector II, International Code Council

- **RECENT AWARDS:**

- SAFER CITY BUILDING OFFICIAL OF THE YEAR (Structural Engineers Association of Southern California) April 2019
- BEST PRACTICE EXCELLENCE AWARD “Thomas Fire Recovery” (American Planning Association, California Chapter-Central Coast Section) April 2019

- **EDUCATION:**

- California State University Northridge, Northridge, CA
- Master of Science in STRUCTURAL ENGINEERING
- California State University Northridge, Northridge, CA
- Bachelor of Science in Civil Engineering
-



Yolanda Bundy, MS,  
PE, CBC, CFCO

Environmental  
Sustainability  
Director  
Building Official





City of Ventura  
Thomas Fire





## Thomas Fire

- **Date:** December 4, 2017
- **Location:** Ventura, Santa Barbara counties
- **Acres:** 281,893
- **Structures:** 1,063 destroyed
- **Fatalities:** 2
- **100% contained on January 12, 2018**



## Thomas Fire

- Residents caught off guard with wind-driven flames covering hillside.
- Over 104 thousand residents evacuated.
- Fire destroyed homes, apartment complexes and a psychiatric hospital.



## Thomas Fire

- **Started December 4, 2017**
- **First reported North of Santa Paula, near Steckel Park and Thomas Aquinas College**
- **Rapid expansion of the blaze attributed to 60 miles per hour Santa Ana winds**





## Thomas Fire

- Fire traveled 12 miles (19 km) in a few hours.
- Many people evacuated with little or no warning



## Thomas Fire

- Impacted Structures
  - 524 Completely Destroyed
  - 128 Damaged

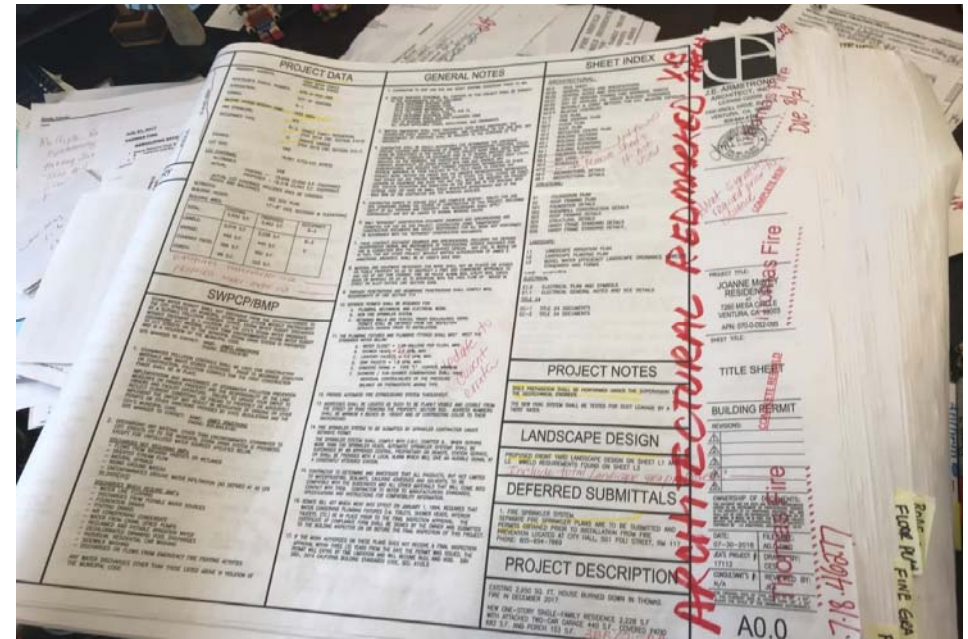




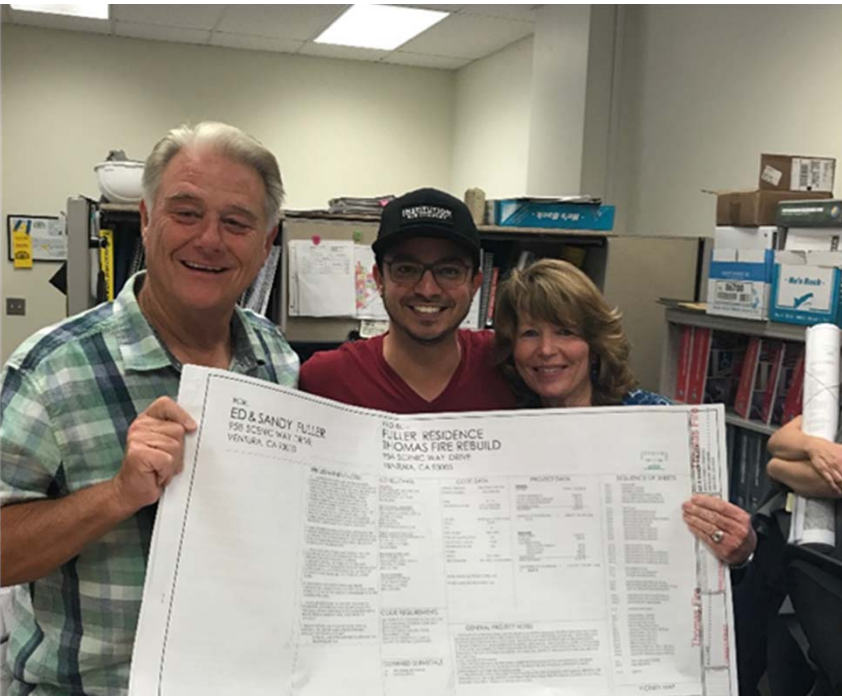
## Plan of Action

- One on one meetings with residents
- Streamlined rebuild process
- Created rebuild guidelines





# Made Plan Check a Priority



## Permit Issuance

- April 18, 2018: first plan submitted
- May 18, 2018: first approval
- Dec. 18, 2018: occupancy allowed

Residents  
impacted by  
Thomas Fire  
are finally  
home!





An aerial photograph of a coastal landscape during sunset. The sun is low on the horizon, casting a warm, golden glow over the ocean and the sky. The foreground is a dark, hilly area with dense vegetation. In the middle ground, a small town or village is visible along the coast, with buildings and a road. The ocean extends to the horizon, with gentle waves visible. A dark circular overlay is positioned on the left side of the image, containing white text.

Yolanda Bundy, MS, PE,  
CBC, CFCO

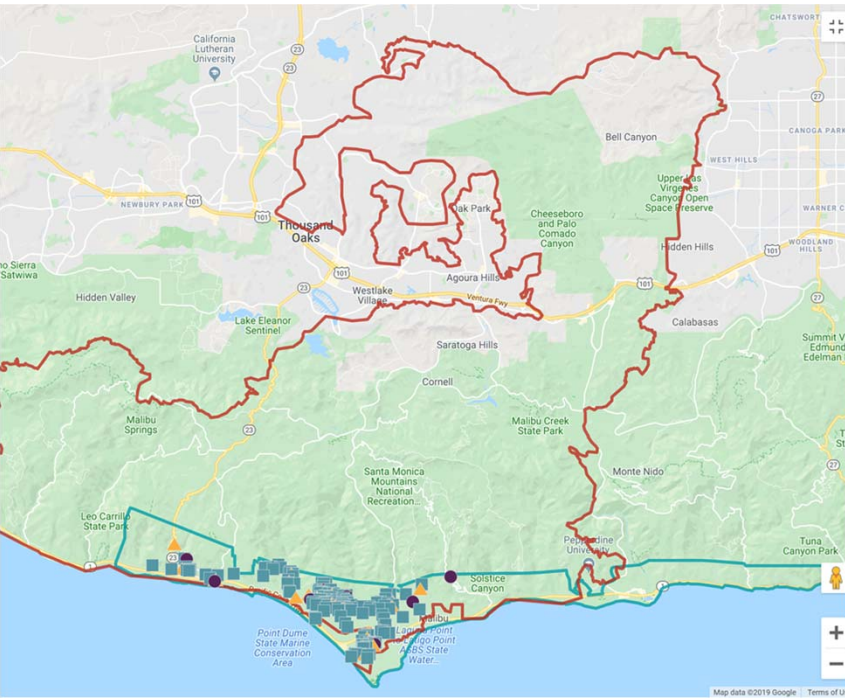
Environmental  
Sustainability Director  
Building Official



City of Malibu  
Woolsey Fire

[www.MalibuRebuilds.org](http://www.MalibuRebuilds.org)

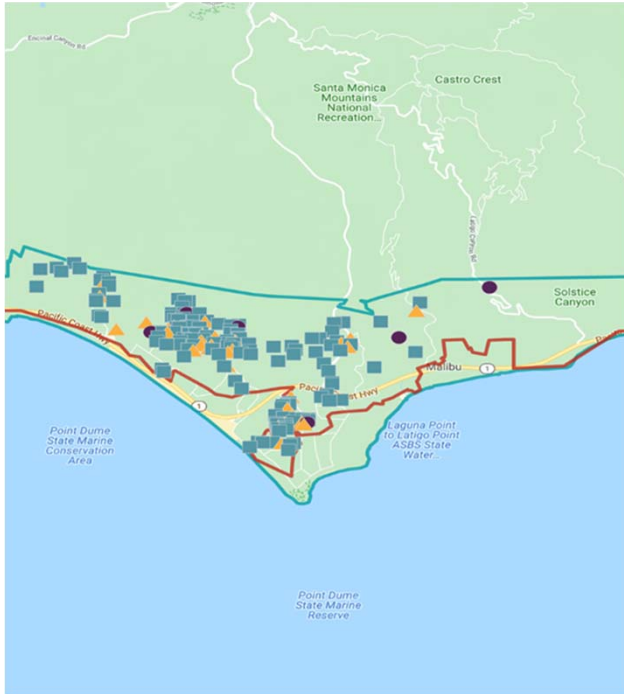




## Woolsey Fire

- Date: November 8, 2018
- Location: Malibu, Surrounding Cities and Counties
- Acres: 96,949





## Woolsey Fire

- All Malibu residents evacuated
- Over 60 MPH wind speed



## Woolsey Fire

- Structures: 1,643 (473 in Malibu)
- Fatalities: 3
- Contained on November 21, 2018

# Rebuild Status: Single Family Residences

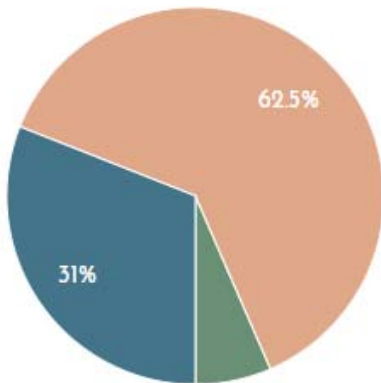


CITY OF MALIBU

# MALIBU REBUILDS

## REBUILD CATEGORIES OF SINGLE-FAMILY RESIDENCES

Approved by Planning.



### Like for Like Rebuild

#### Rebuild Option 1

Rebuilding same location,  
same size



### Like for Like + 10% Rebuild

#### Rebuild Option 2 & 3

Rebuilding same location + up  
to 10% more square footage  
and/or height increase.  
(expansion must conform to  
code)



### Major Change to Residence

#### Rebuild Option 4 & 5

Rebuilding with significant  
changes

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# MALIBU REBUILDS

## REBUILD STATUS OF SINGLE-FAMILY RESIDENCES



### Under Planning Review

Projects that have been submitted to Planning and are awaiting approval.



### Approved By Planning

Projects that have been approved by Planning.



### Building Permits Issued

Projects that have been issued building permits.



### Homes Completed

Projects that have been completed.

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# MALIBU REBUILDS

## WOOLSEY FIRE APPLICATION SUBMITTALS

**BUILDING APPROVALS 42**  
**PENDING BUILDING 432 FAMILIES**







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# MALIBU REBUILDS

## How to Get Ready to Submit

- Meet with Planning Staff, gather general info and checklist, confirm steps
- Visit agencies - PW, EH, Geo, Bio, Fire, LA County Waterworks
- Return to fire rebuild counter for feedback, next steps
- Submit project at fire rebuild counter; if complete, Same day approval! OR Schedule pre-design meeting with Shaveta Sharma, [ssharma@malibucity.org](mailto:ssharma@malibucity.org) for customized advice
- Once your project is approved, see Building and Safety for Building Plan Check requirements & checklist

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# MALIBU REBUILDS

## Process For Woolsey Fire Rebuilds



What can  
I build?



Agency Input &  
Planning Approval



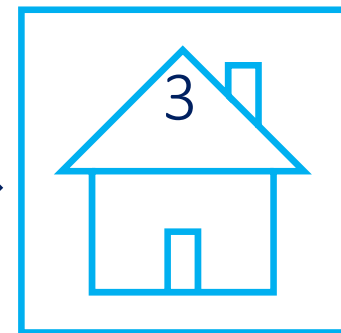
How can  
I build it?



Building Plan  
Check Review &  
Agency Approvals



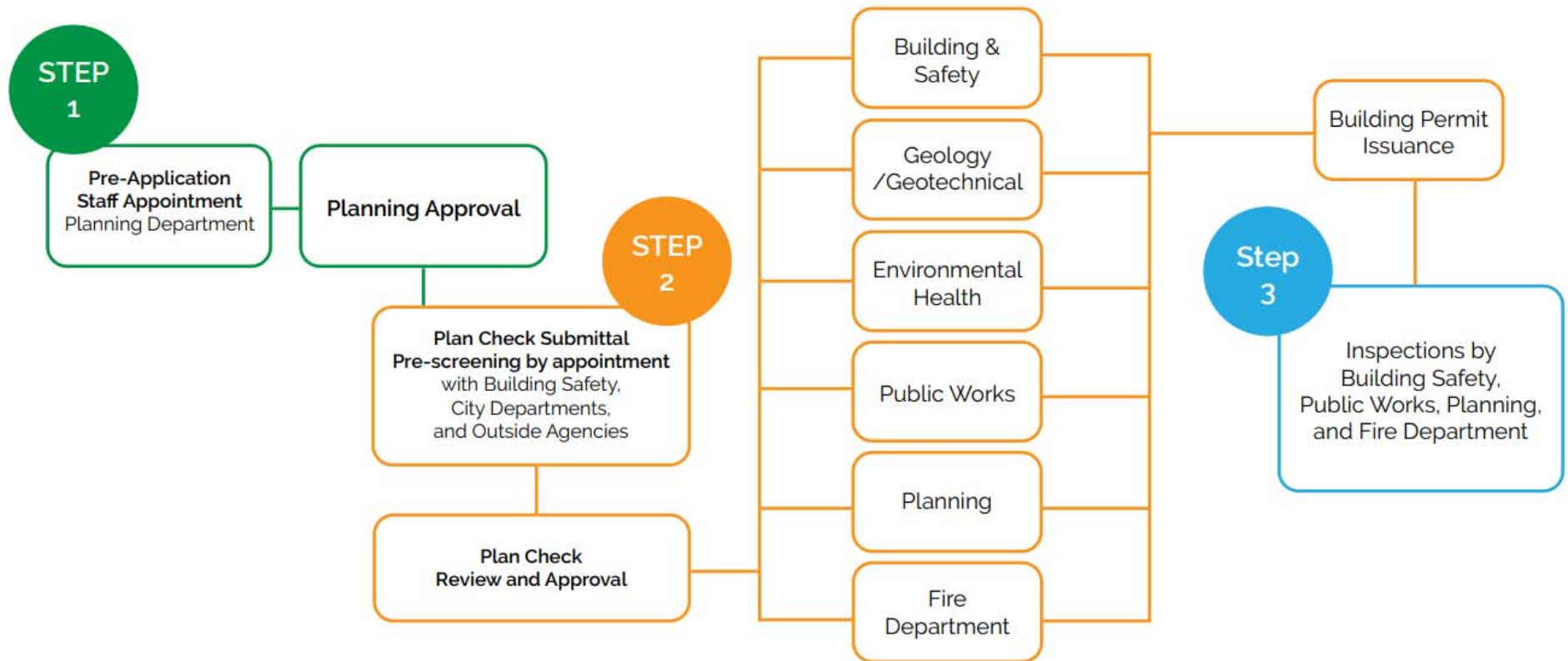
Construction



Permits & Inspections

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# MALIBU REBUILDS





# Planning

Ensures conformance to specified Conditions of Approval, if any; and review by City Biologist

Featured Handout:  
Planning Verification Rebuild Worksheet

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## MALIBU REBUILDS

### PLANNING VERIFICATION REBUILD WORKSHEET


Dear Malibu Resident,

The Planning Verification application is designed to expedite, in-kind and up to 10% expansion of the building envelope (bulk, height, square footage etc.). The rebuild worksheet serves as a road map to complete the planning entitlement process, building plan check review and construction phase to get you back in your home as soon as possible! Below are the necessary steps to complete the rebuild process:

#### Planning Department

- ☐ STEP 1: Visit the Fire Rebuild Counter
- ☐ STEP 2: Pick up your Rebuild Worksheet
- ☐ STEP 3: Visit the agencies
- ☐ STEP 4: Schedule a pre-design meeting
- ☐ STEP 5: Submit project for Planning review/ same day approval - yay!

#### Building Plan Check Review

- ☐ STEP 6: Proceed to Building Safety
  -  \*If you are processing a PV + APR - submit APR approved stamped plans (includes PV approval) to Building Plan Check to avoid longer processing time and double fees
- ☐ STEP 7: Building Plan Check
- ☐ STEP 8: Permit issuance

#### Construction

- ☐ STEP 9: Building Safety Inspections
- ☐ STEP 10: Planning and other City departments Final Inspection
- ☐ STEP 11: Certificate of Occupancy issued - you're home!

This preliminary determination is non-binding and is not a zoning approval. It is based solely on applicable zoning regulations, policies, and interpretations in effect as of this date. Any changes to applicable zoning regulations, policies, and/or interpretations may result in a different determination at a later date that may require project modifications.

Rebuild and Recovery [MalibuRebuilds.org](https://www.malibu.org/Rebuild) | Email questions to [info@MalibuCity.org](mailto:info@MalibuCity.org)  
Sign up for non-emergency information at [MalibuCity.org/WoolseyAlerts](https://www.malibu.org/WoolseyAlerts)

1

PVWF\_Rebuild Worksheet\_07152019

Step 1

**Planning Approval**





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# MALIBU REBUILDS

## STEP 1 Planning Approval

Conformance to Conditions of Approval, if any; and review by City Biologist

What key info is Planning looking for?

PV

- Documentation verifying existing structure
- 3 sets of plans

PV + 10%

- Documentation verifying existing structure
- Highlight on the plans where the 10% addition is located

PLEASE NOTE:

- Addition must comply with all current City codes and standards
- Conformance review is over the counter; missing info could require revisions



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# MALIBU REBUILDS

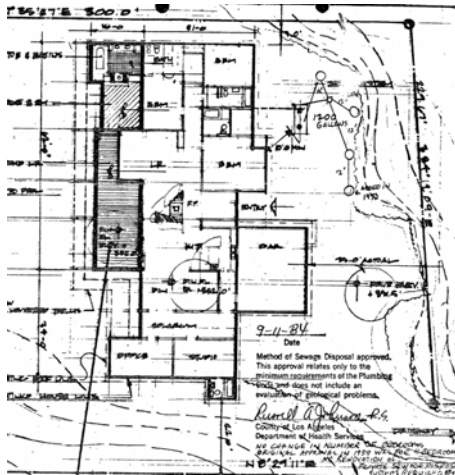
[www.MalibuRebuilds.org](http://www.MalibuRebuilds.org)

## STEP 1 Planning Approval

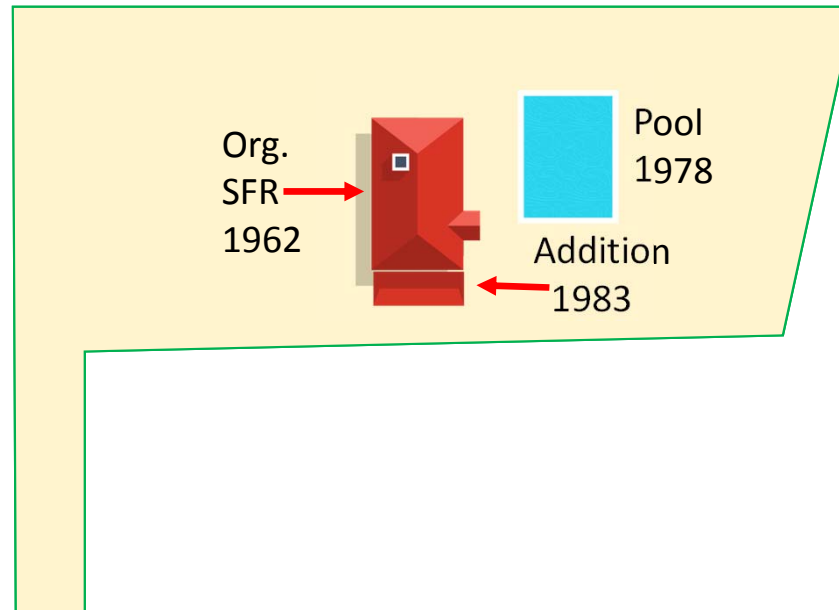
- Addition beyond 10%: IF outside appeal zone & NO deed restrictions -  
Two steps...
  - 1) **PV** for in-kind replacement
  - 2) **APR** for addition
- Completely new house/re-design: **CDP**

# CITY OF MALIBU MALIBU REBUILDS

## Examples of Info for Planning



Previous stamped  
and approved plans



Previous finalized permits

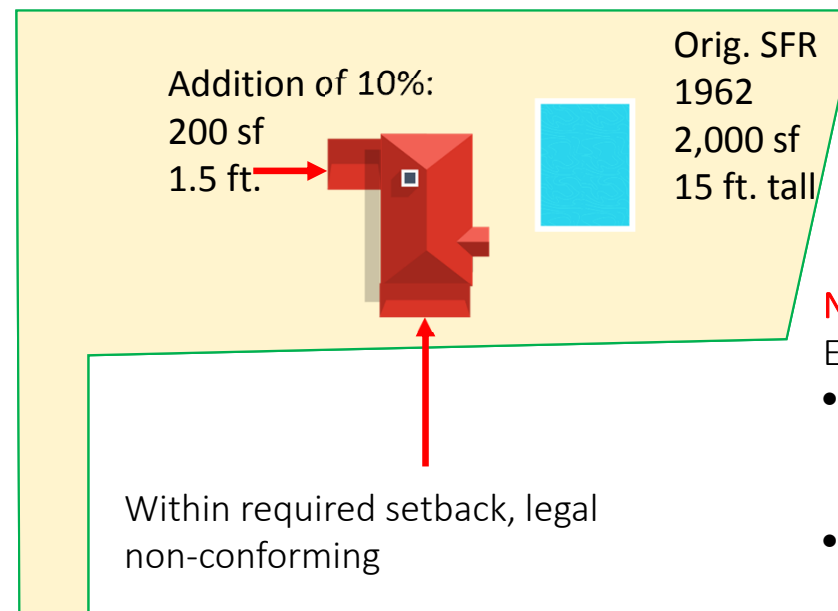
Permit Application				Permittee's Name		Permit Description	
No.	Date	No.	Date	Permittee's Name	Permit Description	Permittee's Name	Permit Description
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3	7-10-78	4	7-10-78	Eastman, Ed	Pool	Eastman, Ed	Pool
5	8-10-78	6	8-10-78	Eastman, Ed	Pool	Eastman, Ed	Pool
7	9-10-78	8	9-10-78	Eastman, Ed	Pool	Eastman, Ed	Pool
9	10-10-78	10	10-10-78	Eastman, Ed	Pool	Eastman, Ed	Pool
11	11-10-78	12	11-10-78	Eastman, Ed	Pool	Eastman, Ed	Pool
13	12-10-78	14	12-10-78	Eastman, Ed	Pool	Eastman, Ed	Pool
15	1-10-79	16	1-10-79	Eastman, Ed	Pool	Eastman, Ed	Pool
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21	4-10-79	22	4-10-79	Eastman, Ed	Pool	Eastman, Ed	Pool
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93	4-10-82	94	4-10-82	Eastman, Ed	Pool	Eastman, Ed	Pool
95	5-10-82	96	5-10-82	Eastman, Ed	Pool	Eastman, Ed	Pool
97	6-10-82	98	6-10-82	Eastman, Ed	Pool	Eastman, Ed	Pool
99	7-10-82	100	7-10-82	Eastman, Ed	Pool	Eastman, Ed	Pool



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# MALIBU REBUILDS

## What does +10% mean?



You can also expand any destroyed accessory structures by 10% each

**NOTE:**

Expansion of 10% is only allowed if:

- New area meets development standards(*cannot expand any non-conformities*)
- Property is under max TDSF and Impermeable



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# MALIBU REBUILDS

## Simplified Planning Process

Simplified planning stage process allows for:

- ✓ In-kind replacement + up to 10% expansion via administrative PV\*
- ✓ Up to 2 temp housing structures, together max of 1,200 sq. ft.

\*PV = Planning Verification



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# MALIBU REBUILDS

## Fee Waivers for Woolsey Fire Projects

Which fees are being waived?

- Like-for-Like or Like-for-Like plus 10%
- Fees associated with Planning, Building Safety, Biology, Environmental Health, Geotechnical review, public works
- Fees for replacement or upgrade of onsite wastewater treatment systems (OWTS), damaged or destroyed accessory structures, hardscaping, and landscaping

Total amount of fees waived to date: \$1,202,918



## Building Safety

Reviews construction plans for compliance with building codes and standards; central hub for all agency approvals

Featured Handout:  
Residential Building Plan  
Check



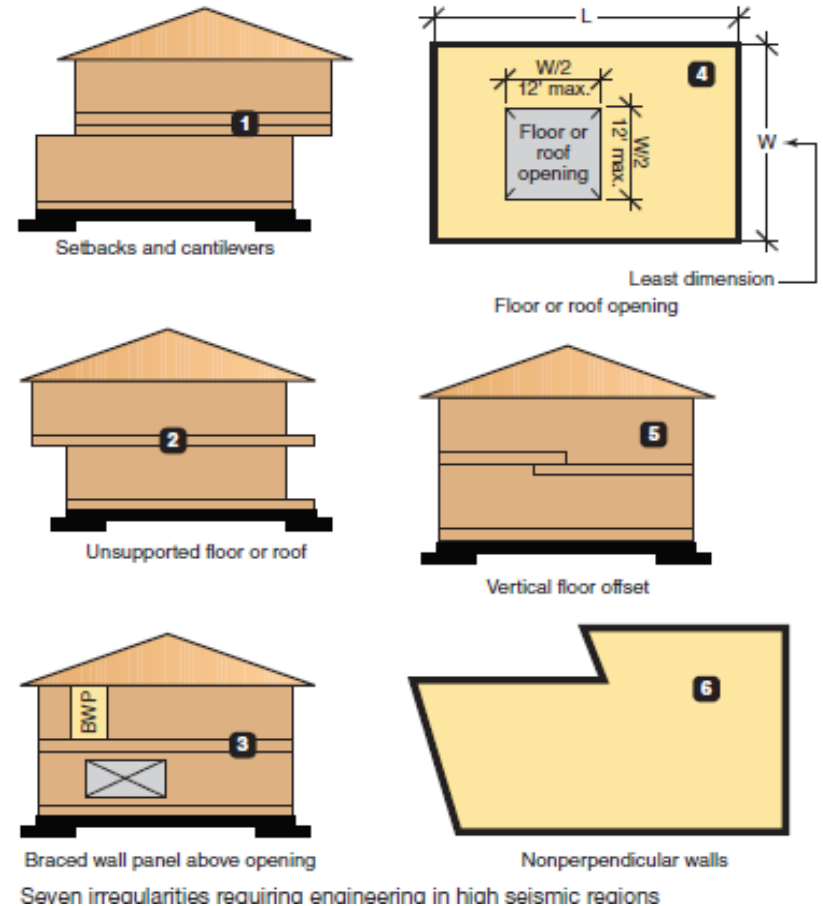
CITY OF MALIBU

# MALIBU REBUILDS

## Building Safety

### Overview of Process:

- Debris Clearance
- Reinstating Power
- Temporary Housing
- Plan Check





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# MALIBU REBUILDS

## Debris Clearance

### **Complete Debris Clearance:**

**Required for properties with damaged/destroyed primary structures (Opt-in / Opt-out programs)**

Debris Removal Operations Center:

Visit the office at 26610 Agoura Road in Calabasas or call 626-979-5370

- 8:00 AM to 5:00 PM Monday - Friday
- 9:00 AM to 12:00 PM Saturday



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# MALIBU REBUILDS

## Debris Clearance Documents

Approved reports necessary to obtain permits to rebuild include:

- Foundation report
- Debris removal completion report



### Los Angeles County Public Works

900 South Fremont Avenue, Alhambra, CA 91803-1331

Telephone: (626) 979-5370 • Website: [www.lacounty.gov/LACountyRecovers](http://www.lacounty.gov/LACountyRecovers)

#### DEBRIS CLEAN-UP CERTIFICATION FORM

#### LOS ANGELES COUNTY LOCAL FIRE DEBRIS REMOVAL PROGRAM PROPERTY CLEAN-UP COMPLETION CERTIFICATION

**What is the purpose of this form?** The purpose of this form is to certify that your parcel has been cleaned of hazardous wastes, ash and debris. This form will be used to certify completion of clean-up by property owners or contractors so that building permits can be issued for new and replacement structures.

**Who needs to complete this form?** Property owners who elect *not* to participate in the State-sponsored debris program and choose to clean-up their property on their own or with a qualified contractor.

**Where do I submit this form?** Please complete, sign, and return this application to your respective city and/or county representative stationed at the: (1) Debris Removal Operations Center: 26610 Agoura Road, Calabasas, CA 91302 and (2) County Building and Safety Field Office – Calabasas: 26600 Agoura Road, Suite 110 Calabasas, CA 91302, or via email to [woolseyfire@dpw.lacounty.gov](mailto:woolseyfire@dpw.lacounty.gov).

Contact the Los Angeles County Debris Removal Hotline at (626) 979-5370 for any questions regarding this application.

Property Owner Name: \_\_\_\_\_ Year Structure Built: \_\_\_\_\_

Property Address: \_\_\_\_\_ City: \_\_\_\_\_

Assessor's Parcel Number (APN): \_\_\_\_\_ Email: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Mailing City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

#### A. Program Participation

# Restoring Utilities

General info and process on how to obtain approvals

Featured Handout:  
Providing Electricity to Properties with Destroyed Structures

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## MALIBU REBUILDS

### PROVIDING ELECTRICITY TO PROPERTIES WITH DESTROYED STRUCTURES

#### POST FIRE INFORMATION

These procedures are for property owners whose residential structures were impacted by the Woolsey Fire. Electrical service may be considered for habitable structures such as primary residences, guest houses, or pool houses where it is deemed safe. Electrical service may also be considered for the purposes of operating specific equipment such as irrigation controllers, pool equipment, and vehicular access gates.

#### GENERAL

- No "Temporary Power Poles" will be approved.
- Only permanent service panels and wiring methods will be allowed.
- All installations shall be in compliance with the 2017 Los Angeles County adoption of California Building Code (Code).
- Only California State Licensed Electrical Contractors (C-10) may obtain an electrical permit.
- Any electrical service panel must be mounted to a secure surface such as an existing habitable structure, concrete block wall or other acceptable structure.
- Electrical service is included with the [Temporary Housing Permit](#). Call 310-456-2489 x371 or email [mbuilding@malibucity.org](mailto:mbuilding@malibucity.org) with questions about the permit application.

#### HOW TO OBTAIN APPROVALS FOR ELECTRICAL SERVICE

1. Contact Southern California Edison (SCE) at 800-655-4555 to request service meter location. Typically, SCE will contact the customer within 5-7 days, then schedule a site visit before approval.
2. Request an inspection with City staff to verify the electrical service need/safety with the online scheduling system at [MalibuCity.org/inspection](https://malibucity.org/inspection) or call 310-456-2489 x312.
3. After getting City approval for electrical service need/safety and SCE approval of the service meter location, submit the following at City Hall, Monday–Thursday, 8:00 AM–12:00 PM.
  - Plot plan of the property indicating all existing structures (8.5" x 11" minimum).
  - Identify structures or equipment to be provided electrical power.
  - Identify location of main service panel.
  - Identify the location of all electrical subpanels to be energized.
  - Identify location of all circuits to equipment such as pool equipment or vehicular gate motor.
  - Identify conduit size and conductor size proposed. All exterior conduits shall be placed underground and buried (24" minimum from natural grade in an approved conduit).
  - Submit completed plans to City Plans Examiner for review and approval.

Incident information [MalibuRebuilds.org](https://maliburebuilds.org) | Email questions to [info@MalibuCity.org](mailto:info@MalibuCity.org)  
Sign up for non-emergency information at [MalibuCity.org/WoolseyAlerts](https://malibucity.org/WoolseyAlerts)



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# MALIBU REBUILDS

## Reinstating Power

Meter Replacement – Courtesy inspection by City Building Inspector

Replacement Service Equipment

Call Southern California Edison 800-990-7788 for meter location approval

Permanent Power Requirement

- Initial inspection and permit
- Meter pedestal or pole-mounted meter
- Permanent wiring



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# MALIBU REBUILDS

## Temporary Housing

### Building Safety Permit

- Site plan
- Unit information

### Utility Hookups

- Electrical
- Water
- Gas

### Inspections



MALIBU  
REBUILDS

**WOOLSEY FIRE**  
**PERMIT REQUIREMENTS**  
**FOR INSTALLING**  
**TEMPORARY HOUSING**

Rebuild and Recovery [MalibuRebuilds.org](https://MalibuRebuilds.org)  
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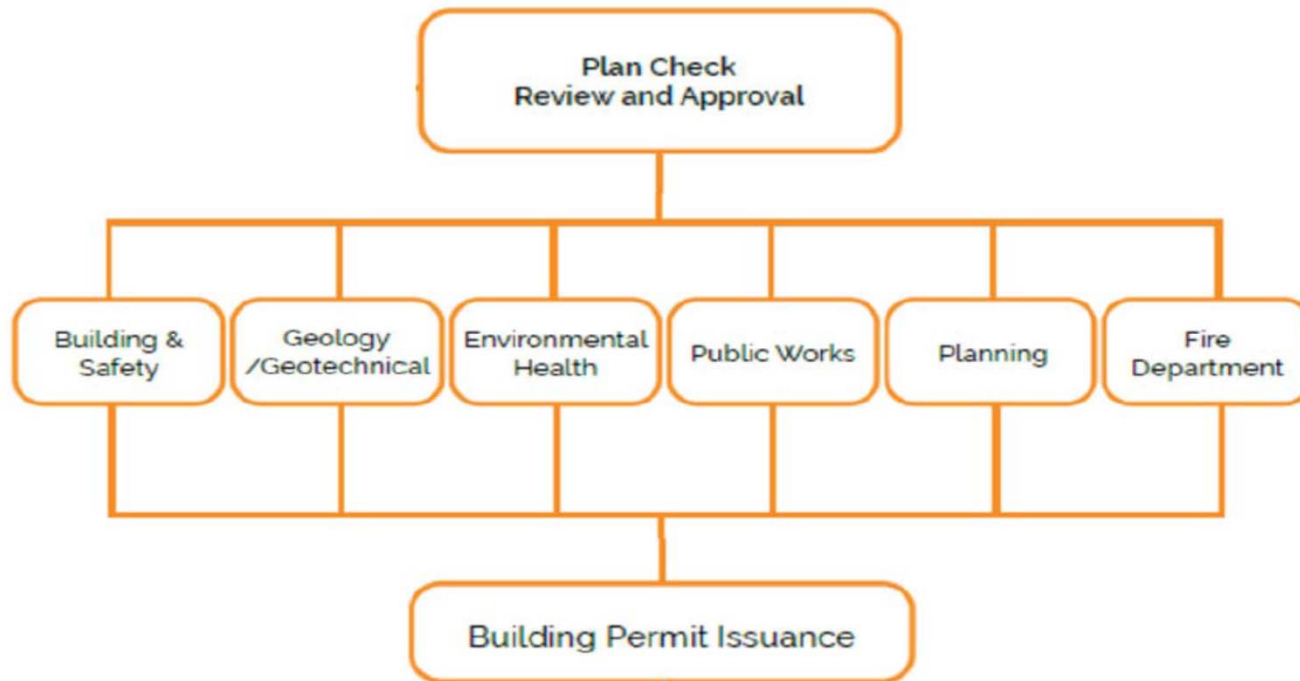
Step 2

## **Building Plan Check**

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# MALIBU REBUILDS

## STEP 2 Building Plan Check & Agency Approvals





# Plan Check

For Plan Check process,  
provide Foundation Reuse  
Feasibility Report

Featured Handout:  
Foundation Reuse After the  
Woolsey Fire

CITY OF MALIBU

## MALIBU REBUILDS

### FOUNDATION REUSE AFTER THE WOOLSEY FIRE

The standard procedure for removal of debris at a property with a severely damaged or destroyed structure is to completely remove and dispose of the foundation. Property owners who opt-in to the State led Office of Emergency Services (OES)/CalRecycle debris removal program will automatically have aboveground portions of their foundations removed. Existing footings, slabs, and foundation systems in fire-destroyed buildings are typically compromised and are not permitted to be re-used. For property owners who enroll in the Local Program for self-directed debris removal, exceptions may be considered on a case-by-case basis.

Intense heat and fire can render a foundation unusable, or impractical for re-use for the following reasons:

1. A fire can generate enough heat to damage and weaken the concrete and steel reinforcement bars in footings, slabs, and footing stem walls. Even though concrete is non-flammable and offers fire protective qualities for preventing the spread of fire, it loses most, if not all of its structural strength characteristics when exposed to extreme heat. Performing compressive tests to confirm that the concrete has retained sufficient strength for reusing can be destructive and is not cost effective.
2. Foundation anchorage hardware (steel bolts and hold-down anchors) are lost or compromised during a fire and cannot be replaced or repaired without expense. Installing replacement anchors in an existing footing is labor intensive and requires special inspection during installation, which can add significant cost. Replacement anchors for hold down hardware must be re-engineered and are difficult and expensive to install in existing concrete footings. It requires special hardware and installation techniques involving high-strength epoxies, careful drilling and inspection of the installation locations, and continuous inspection of the new anchor placement. Continuous inspection is required throughout the entire installation process, and is required to be conducted by inspectors certified by the International Code Council (ICC) or LA City.
3. Plumbing pipes and electrical conduit embedded in the concrete is usually destroyed or heavily damaged during a fire. Repairs and replacement of pipes and conduit in existing foundations involves the removal and replacement of portions of the concrete that encapsulates them, which further compromises the concrete. This process usually involves the saw cutting or jackhammering out those portions of concrete containing pipes and conduit, removing and replacing the damaged pipes and conduit, and pouring the replacement concrete.

Rebuild and Recovery [MalibuRebuilds.org](https://www.MalibuRebuilds.org) | Email questions to [info@MalibuCity.org](mailto:info@MalibuCity.org)  
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# MALIBU REBUILDS

## Plan Check

### Building Plans Review

- Foundation reuse feasibility report
- Architectural and Energy
- Structural
- Grading/Drainage



## Environmental Health

Reviews functionality and capacity of wastewater system to serve your building(s)

Featured Handout:  
Rebuild Review Process for  
Environmental Health

### REBUILD REVIEW PROCESS – Environmental Health (EH)

Rebuild Type	Materials Required	Approval Process
<b>Planning Verification (PVWF)</b>  <b>Temporary Home (THWF)</b>  Utilize existing onsite wastewater treatment system (OWTS)	<ul style="list-style-type: none"> <li>• Planning Approval – EH conditions</li> <li>• OWTS Assessment Form</li> <li>• OWTS Site Plan</li> <li>• Floor Plan</li> <li>• Fee = \$404.00 submitted during Building Plan Check</li> </ul>	<ul style="list-style-type: none"> <li>• Complete any necessary repairs to OWTS</li> <li>• EH reviews during Building Plan Check, issues approved OWTS site plan and stamps plans</li> </ul>
<b>Administrative Plan Review (APRWF)</b>  Utilize existing onsite wastewater treatment system (OWTS)	<ul style="list-style-type: none"> <li>• OWTS Assessment Form</li> <li>• OWTS Site Plan</li> <li>• Floor Plan</li> <li>• Submit all documents to Planning</li> <li>• Fee = \$806.00 submitted to Planning</li> </ul>	<ul style="list-style-type: none"> <li>• EH reviews during Planning stage</li> <li>• Complete any necessary repairs to OWTS</li> <li>• EH reviews during Building Plan Check and issues final approval</li> </ul>
<b>Administrative Plan Review (APRWF)</b> Replace/upgrade OWTS	<ul style="list-style-type: none"> <li>• APR/CDP Application Checklist – materials for review</li> <li>• Submit all documents to Planning</li> <li>• Fee = \$2115.00 submitted to Planning</li> </ul>	<ul style="list-style-type: none"> <li>• EH reviews during Planning stage for conformance and Building Plan Check stage for approval</li> <li>• All conditions must be met prior to issuance of building permit</li> <li>• Fee = \$1510.00 submitted to EH</li> </ul>
<b>Coastal Development Permit (DMW) or (CDP)</b> Replace/upgrade OWTS		

[www.MalibuRebuilds.org](http://www.MalibuRebuilds.org)



CITY OF MALIBU

# MALIBU REBUILDS

## Plan Check

## Environmental Health

- Onsite Wastewater Treatment Systems (OWTS)
- Capacity and system condition

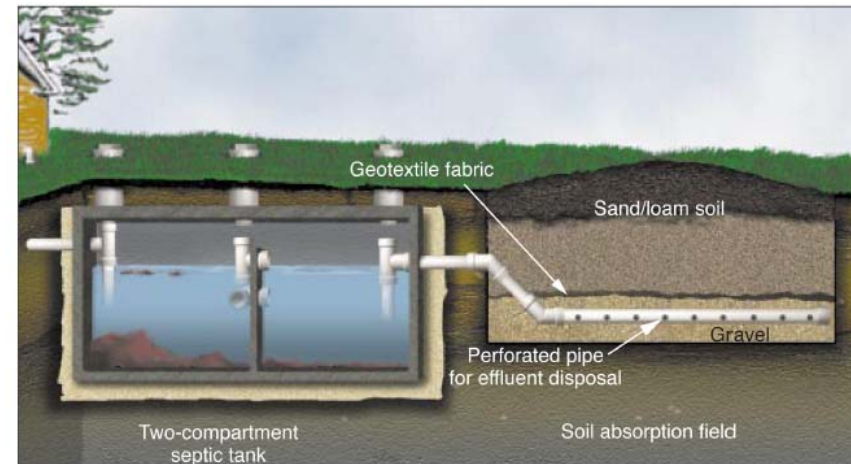


Figure 1: A septic tank and soil absorption field system.



CITY OF MALIBU

# MALIBU REBUILDS

## Environmental Health

### Reuse of Existing OWTS

- OWTS Assessment Form
- Site plan with location of OWTS and all structures
- Floor plans and fixture unit worksheet

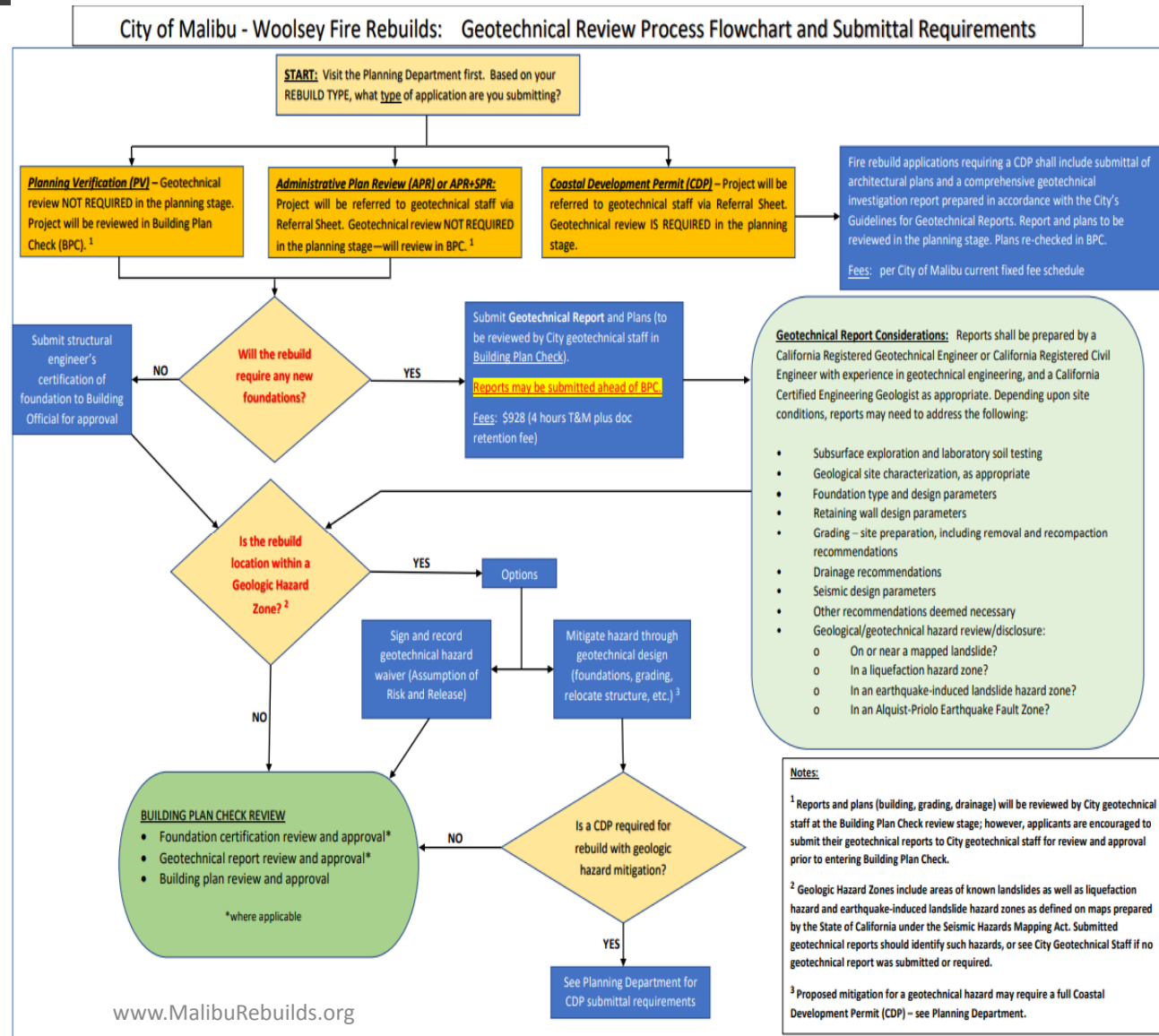
### New OWTS

- See Planning project application checklist

# Geology / Geotechnical

Reviews geologic and soils engineering reports and plans

Featured Handout:  
Geotechnical Review Process Flow Chart and Submittal Requirements





CITY OF MALIBU

# MALIBU REBUILDS

Plan Check

Geology

- Support for foundation design
- Geotechnical reports





CITY OF MALIBU

# MALIBU REBUILDS

## Geology / Geotechnical

### Reuse of Existing Foundation

- Approved foundation feasibility report
- Approved foundation repair plan

### New Foundation

- Requires Geotechnical report

## Public Works

Reviews drainage, grading, erosion control plans, FEMA flood zone regulations

Featured Handout:  
Local Storm Water Pollution Prevention Plan Requirements



The Contractor shall implement the following BMPs listed within the table below (check marked) prior to the commencement of any construction activity. Additional BMPs may be required as deemed necessary with onsite inspections or conditions.

### LOCAL SWPPP – CONTRACTOR REQUIREMENTS

	Best Management Practices (BMPs)	Project Size/Classification	CASQA Handbook
		<1 acre	
Erosion Control	Scheduling	X	EC-1
	Preservation of Existing Vegetation	X	EC-2
	Hydraulic Mulch		EC-3
	Hydroseeding		EC-4
	Soil Binders		EC-5
	Straw Mulch		EC-6
	Geotextiles		EC-7
	Wood Mulching		EC-8
	Slope Drains		EC-11
Sediment Controls	Silt Fence	X	SE-1
	Sand Bag Barrier	X	SE-8
	Fiber rolls	X	SE-5
	Gravel Bag Berm		SE-6
	Street Sweeping and/ or Vacuum		SE-7
	Storm Drain Inlet Protection	X	SE-10
	Sediment Basin		SE-2
	Check Dam		SE-4
Tracking Control	Stabilized Construction Site Entrance/Exit	X	TC-1
	Stabilized Construction Roadway		TC-2
	Entrance/ Exit Tire Wash		TC-3
Wind Erosion Control	Wind Erosion Controls	X	WE-1
Waste Management	Material Delivery and Storage	X	WM-1
	Stockpile Management	X	WM-3
	Spill Prevention and Control	X	WM-4
	Solid Waste Management	X	WM-5
	Concrete Waste Management	X	WM-8
	Sanitary/Septic Waste Management	X	WM-9
Non-Storm Water Management	Water Conservation Practices	X	NS-1
	Dewatering Operations	X	NS-2
	Vehicle and Equipment Washing	X	NS-8
	Vehicle and Equipment Fueling	X	NS-9
	Vehicle and Equipment Maintenance	X	NS-10

Notes: The BMPs listed above are referencing the California Stormwater BMP Handbooks and BMP Fact Sheets and can be downloaded from the California Stormwater Handbooks at [www.casqa.org](http://www.casqa.org)





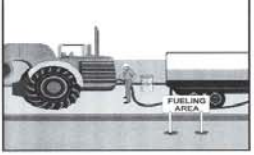
CITY OF MALIBU

# MALIBU REBUILDS

## Public Works

Reviews drainage, grading, erosion control plans (local SWPPP), stormwater and water quality compliance, FEMA flood zone regulations, and improvements within the public right-of-way

### Vehicle and Equipment Fueling NS-9



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective

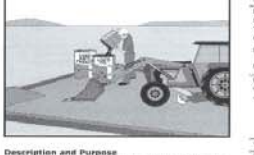
**Targeted Constituents**

- Sediment
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

Vehicle equipment fueling procedures and practices are designed to prevent fuel spills and leaks, and reduce or eliminate contamination of stormwater. This can be accomplished by using offsite facilities, fueling in designated areas only, reducing or covering stored fuel, implementing spill controls, and training employees and subcontractors in proper fueling procedures.

### Vehicle & Equipment Maintenance NS-10



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective


**Targeted Constituents**

- Sediment
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

Prevent or reduce the contamination of stormwater resulting from vehicle and equipment maintenance by providing a "dry and clean site". The best option would be to perform maintenance activities at an off-site facility. If this option is not available then work should be performed in designated areas only, while providing cover for materials stored outside, checking for leaks and spills, and containing and cleaning up spills immediately. Employees and subcontractors must be trained in proper procedures.

### Silt Fence SE-1



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective

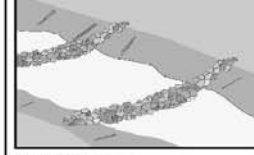
**Targeted Constituents**

- Sediment (coarse sediment)
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

A silt fence is made of a woven geotextile that has been entrenched, attached to supporting poles, and sometimes backed by a plastic or wire mesh for support. The silt fence detains water, promoting sedimentation of coarse sediment behind the fence. Silt fence does not retain all fine particles like clays or silts.

### Check Dams SE-4



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective

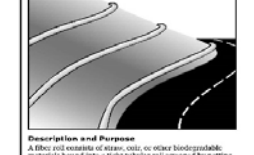
**Targeted Constituents**

- Sediment
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

A check dam is a small barrier constructed of rock, gravel logs, sandbags, flow rolls, or other proprietary products, placed across a concentrated runoff or drainage ditch. Check dams reduce the effective slope of the channel, thereby reducing scour and channel erosion by reducing flow velocity and increasing runoff time within the channel, allowing sediment to settle.

### Fiber Rolls or Silt Fence SE-5



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective


**Targeted Constituents**

- Sediment
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

A fiber roll consists of straw, coir, or other biodegradable material bound into a fiber roll and secured by a netting, which can be placed on a slope or in a ditch. Additionally, gravel over fiber rolls can be installed, which contains an additional barrier material such as gravel or sand for additional weight when adding the rolls to a ditch or slope. Fiber rolls are used in a similar manner to silt fences. When fiber rolls are placed in a ditch and are on the face of a slope, they are used to reduce erosion. When fiber rolls are placed in a ditch and are on the face of a slope, they are used to reduce erosion. When fiber rolls are placed in a ditch and are on the face of a slope, they are used to reduce erosion.

### Street Sweeping and Vacuuming SE-7



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective


**Targeted Constituents**

- Sediment
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

Street sweeping and vacuuming are used to remove sediment, trash, and other debris from road surfaces. This helps reduce the amount of material that can be washed into stormwater systems during rain events.

### Sandbag Barrier SE-8



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective


**Targeted Constituents**

- Sediment
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

A sandbag barrier is a series of sand-filled bags placed on a level contour to intercept or to divert sheet flow. Sandbag barriers placed on a level contour pond sheet flow runoff, allowing sediment to settle out.

### Storm Drain Inlet Protection SE-10



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective

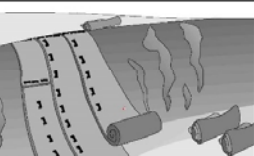
**Targeted Constituents**

- Sediment
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

Storm drain inlet protection consists of a sediment filter or an intercepting grate, installed at the entrance of a storm drain, inlet, or catch basin. Storm drain inlet protection structures temporarily pond runoff before it enters the storm drain, allowing sediment to settle. Storm filter configurations also remove sediment by filtering, but usually the ponding action results in the ponded sediment collecting. Temporary protection storm drain inlets are used to protect storm drain inlets from erosion and sedimentation.

### Geotextiles and Mats EC-7



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective

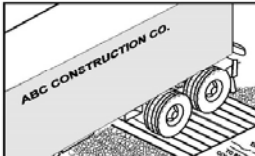
**Targeted Constituents**

- Sediment
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

Geotextiles and mats are used to stabilize soil on slopes and prevent erosion. They are made of synthetic or natural fibers and are designed to be placed on the surface of the soil to provide a protective layer.

### Entrance/Outlet Tire Wash TC-3



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective

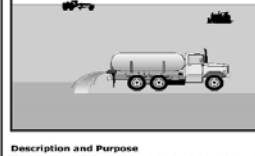
**Targeted Constituents**

- Sediment
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

Tire wash systems are used to clean the tires of vehicles entering and exiting a construction site. This helps reduce the amount of sediment and other debris that can be tracked onto public roads.

### Wind Erosion Control WE-1



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective

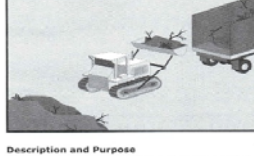
**Targeted Constituents**

- Sediment
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

Wind erosion or dust control consists of applying water or other chemical dust suppressants as necessary to prevent or alleviate dust nuisance generated by construction activities. Covering small stockpiles or areas is an alternative to applying water or other dust suppressants.

### Solid Waste Management WM-5



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective

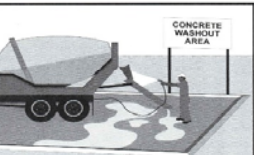
**Targeted Constituents**

- Sediment
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

Solid waste management procedures and practices are designed to prevent or reduce the discharge of pollutants to stormwater from solid or construction waste by providing designated waste collection areas and containers, arranging for regular disposal, and training employees and subcontractors.

### Concrete Waste Management WM-8



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective

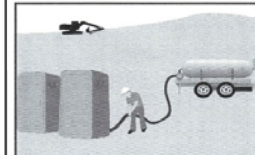
**Targeted Constituents**

- Sediment
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

Prevent or reduce the discharge of pollutants to stormwater from concrete waste by conducting washout offsite, performing onsite washout in a designated area, and training employee and subcontractors.

### Sanitary/Septic Waste Management WM-9



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective

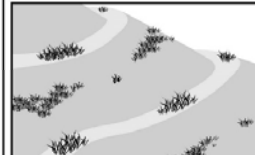
**Targeted Constituents**

- Sediment
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

Proper sanitary and septic waste management prevent the discharge of pollutants to stormwater from sanitary and septic waste by providing convenient, well-maintained facilities, and arranging for regular service and disposal.

### Hydroseeding EC-4



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective

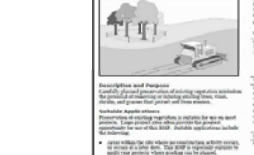
**Targeted Constituents**

- Sediment
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

Hydroseeding typically consists of applying a mixture of a hydraulic mulch, seed, fertilizer, and stabilizing erosion with a hydraulic applicator, to temporarily protect exposed soils from erosion by water and wind. Hydroseeded seedling, or hydroseeding, is simply the method by which temporary or permanent seed is applied to the soil surface.

### Preservation of Existing Vegetation EC-2



**Objectives**

- EC Erosion Control
- SE Sediment Control
- TC Tracking Control
- WE Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

**Legend:**

- Primary Objective
- Secondary Objective

**Targeted Constituents**

- Sediment
- Nutrients
- Trash
- Metals
- Bacteria
- Oil and Grease
- Organics

**Description and Purpose**

Preservation of existing vegetation is a key component of erosion control. It helps stabilize soil and prevent erosion by maintaining the natural vegetation cover. This can be achieved by avoiding construction activities in areas with existing vegetation, or by using protective measures to preserve the vegetation during construction.

**PLAN CHECK # :**

**PERMIT # :**

**ADDRESS:**

**2015 CA RESIDENTIAL CODE**

**EROSION AND SEDIMENT CONTROL PLAN (ESCP)**

**THESE CODE REQUIREMENTS GOVERN ANY ERRORS SHOWN ON THESE PLANS.**

**WORK DESCRIPTION:**

**CITY OF:**

**MALIBU**

**23825 STUART RANCH ROAD**

**MALIBU, CA 90265**

**310-456-3356**

**SHEET 1 OF 2**



CITY OF MALIBU

# MALIBU REBUILDS

## FIRE REVIEWS

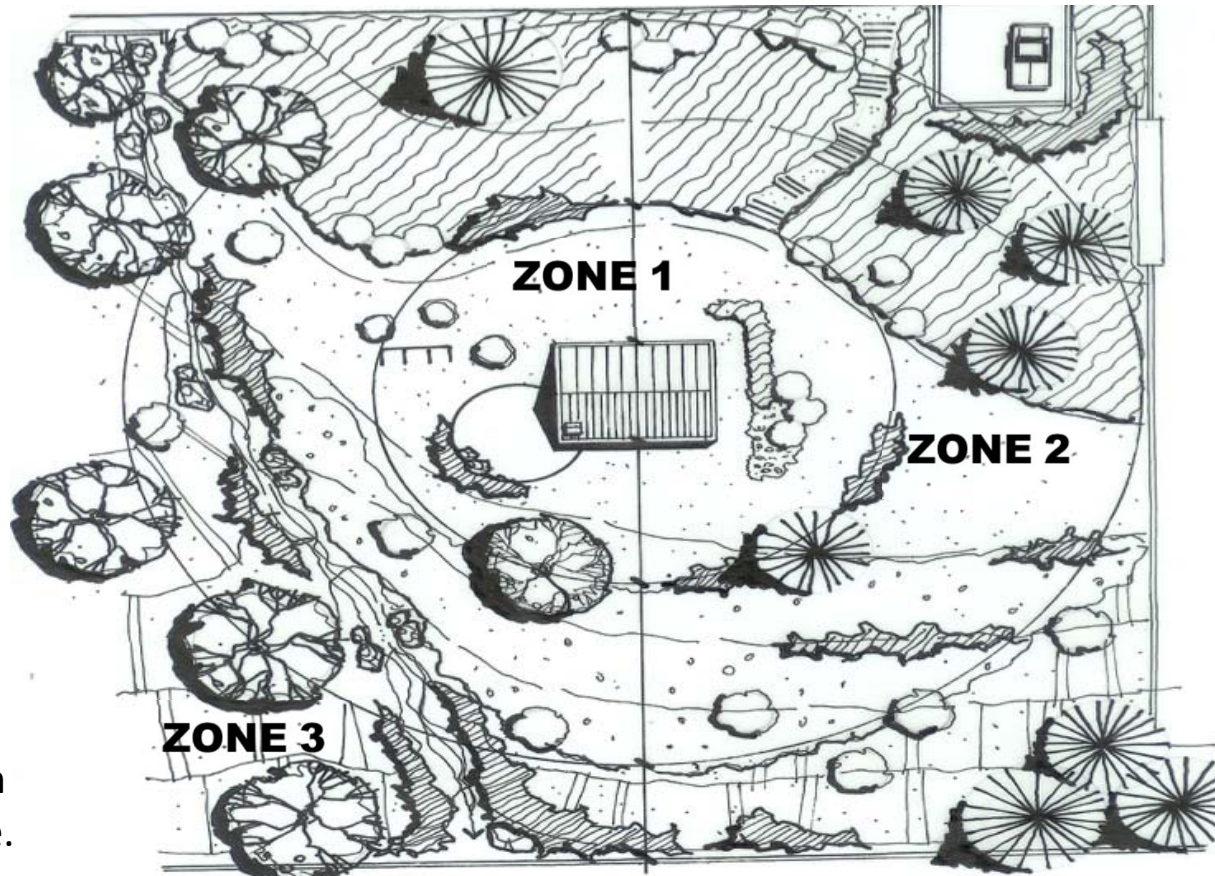
- Fuel Modification

*The Garden Zone / Defensible Space*

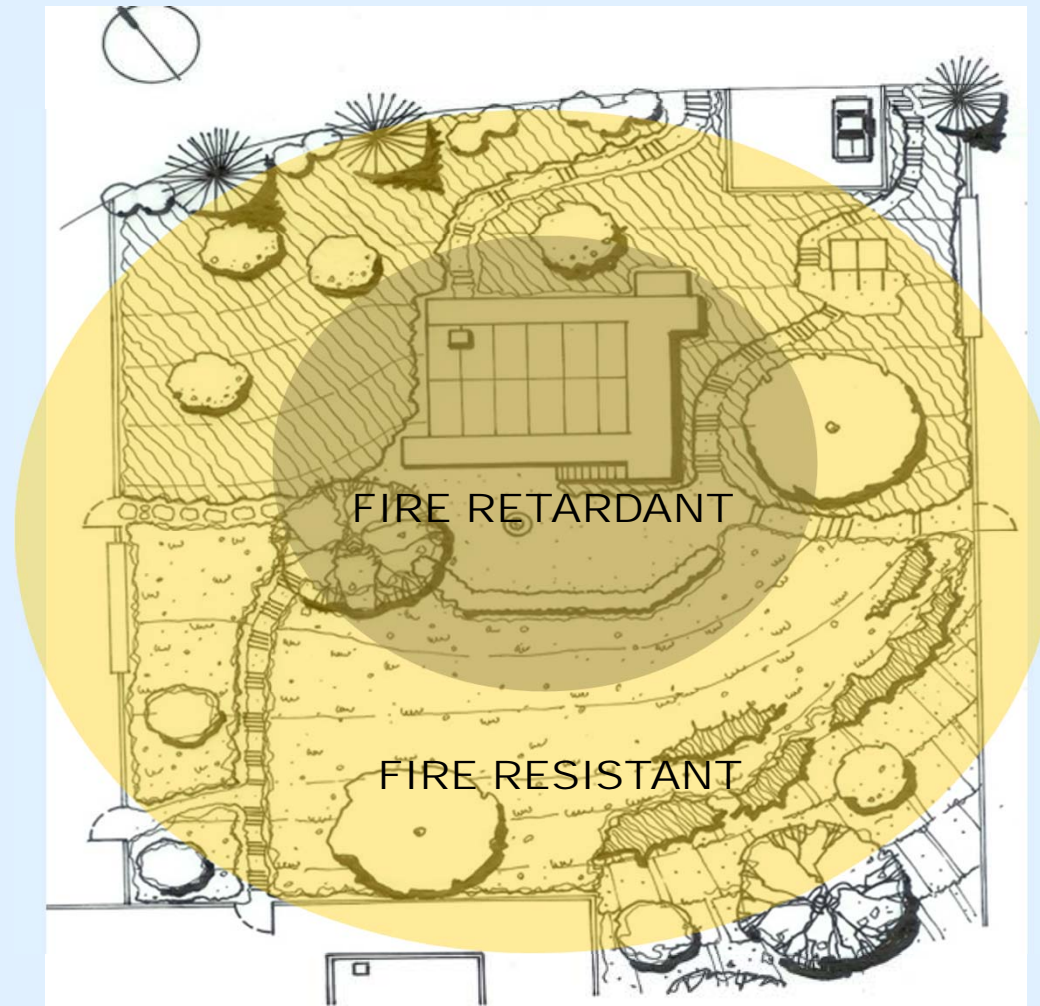
**Distance:** Extends 30 ft from house or structure.

**Primary Goal:** Able to withstand flying embers and intense heat. Only zone that selected plants can be dependent on imports, mainly water and fertilizers.

**Secondary Goal:** This area has to maintain a high recreational, functional and/or economical value.



## Less Flammable Plants



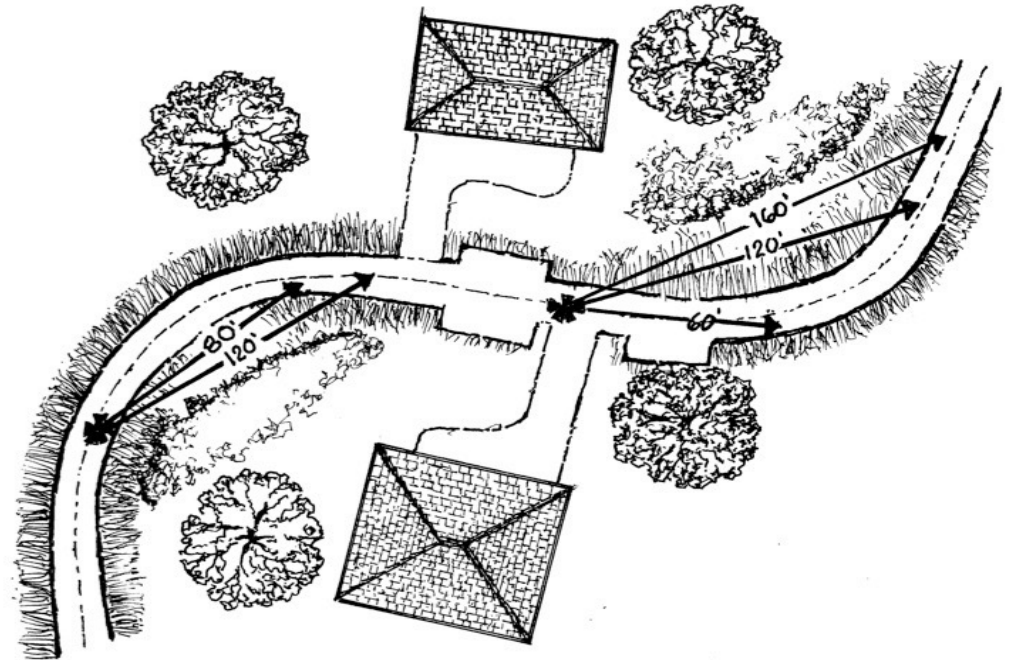


CITY OF MALIBU

# MALIBU REBUILDS

## FIRE REVIEWS

- Fire Access
- Occupancy approval
- Fire sprinklers





CITY OF MALIBU

# MALIBU REBUILDS

## Los Angeles County Fire Department

Reviews for compliance with fire code and fuel modification requirements.

Fire Department plan review and approval is required for the rebuilding of all destroyed structures.

Questions about the plan review process for rebuilding:

- Chris Kennelly, email [christopher.kennelly@fire.lacounty.gov](mailto:christopher.kennelly@fire.lacounty.gov)
- Jackie Switzler, email [jackie.switzler@fire.lacounty.gov](mailto:jackie.switzler@fire.lacounty.gov)
- Calabasas/Malibu Field Office, 818-880-0341

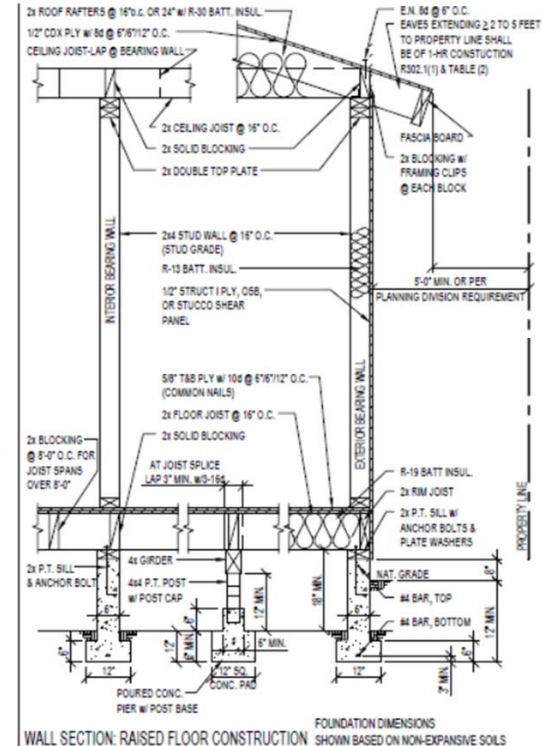
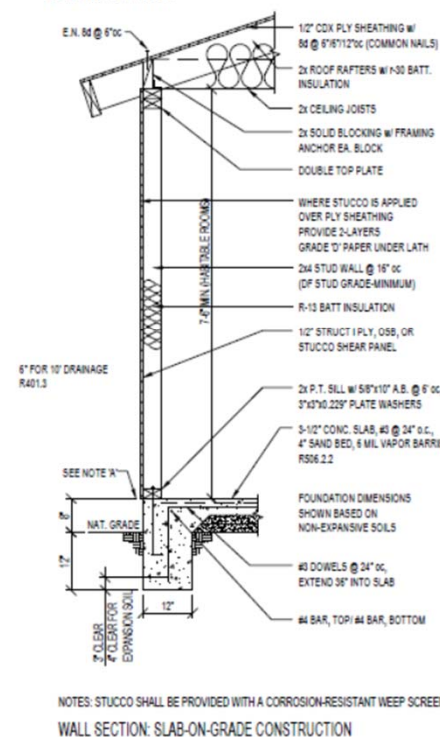
# CITY OF MALIBU MALIBU REBUILDS

## Building Permit Issuance

- Building Plans Coordination Service
- Streamlined correction list and Type V Sheets

TYPE V CONSTRUCTION-WOOD FRAME RESIDENTIAL BUILDINGS  
ONE-STORY CONSTRUCTION

TYPE V CONSTRUCTIONS IS A CLASSIFICATION OF BUILDINGS BY CONSTRUCTION MATERIALS AND METHODS. IT IS THE LEAST RESTRICTIVE PERMITTED BY THE CBC AND INCLUDES LIGHT, WOOD-FRAME CONSTRUCTION. THIS SHEET IS FOR INFORMATION AND REFERENCE ONLY AND IS NOT A SUBSTITUTE FOR ACCURATE DRAWINGS PREPARED FOR EACH PROPOSED CONSTRUCTION PROJECT.





## Additional Handouts

### Featured Handout: Grading Permits for Properties Impacted by Woolsey Fire

## CITY OF MALIBU MALIBU REBUILDS

### GRADING PERMITS FOR PROPERTIES IMPACTED BY WOOLSEY FIRE

A City grading permit is required when any building permit is issued for a "like for like" single family residence fire rebuild project (i.e., any project with no landform alteration that meets Planning Department criteria for a [Planning Verification \(PV\) or PV +10%](#) case type). Applicants may obtain the necessary permits at the Building Safety Public Counter. The description of work for the grading permit shall be in accordance with one or more of the three typical scopes of work covered under this policy. In [Los Angeles County Building Code, Appendix J](#), "regular grading" is defined as grading that will not support any structure, and "engineered grading" is defined as grading that is proposed to support any structure. This policy makes references to both types of grading. Adjustments to the policy may be required by the City Building Official on a case by case basis. Below are submittal requirements for the three typical scopes of grading work covered under this policy and a brief description of projects that would not be covered under this policy.

- I. **REESTABLISH PRE-EXISTING GROUND SURFACE:** The area from which soils were excavated for foundation removal and/or soils sampling (as part of the fire debris removal process) may receive imported soil in order to reestablish pre-existing ground surface grade. This scope of work includes provisions for non-structural fill to be placed in the footprint area of the destroyed residence to reestablish the pre-existing grade only, and the grading permit will be noted as such. These requirements apply to "regular grading" projects (i.e., graded soils that will not support a building foundation).

#### Submittal Requirements:

- Site plan clearly showing the area of the non-structural fill, the final grade elevation(s) to be reestablished, and the total cubic yards of soil to be imported and filled (see example in Table 1).
- The plan must show methods of repair for any damaged pre-existing drainage system(s).
- The plan must be approved by Geology. Submit the plan at the Building Safety Public Counter for routing.

- II. **FINE GRADING:** This scope of work addresses code requirements for drainage away from the structure to an approved point of discharge. It applies to projects where no overall grading or recompaction is proposed for the site. These requirements apply to "regular grading" in rebuild projects where existing foundations will be reused and/or altered without the need for regrading/recompacting any soil underlying the foundation the replacement building.

#### Submittal Requirements:

- Fine grading and drainage plan showing the final grade elevation(s) adjacent to proposed structure(s) and the location and type of conveyance(s) to an approved drainage device. This plan may be part of the architectural site plan; a separate civil plan will be accepted but is not necessary for the issuance of this type of grading permit.
- The plan must identify the total cubic yards of soil import or export and the amounts of cut and fill (see example in Table 1).
- The plan must be prepared and signed (stamped, if applicable) by the design professional of record.
- The plan must be approved by Public Works and Building Safety as part of building plans review (i.e., a separate grading plan check is not required).

- III. **REMOVAL AND RE-COMPACTION:** Where removal and recompaction (R&R) of disturbed soils under a destroyed residence or accessory structure(s) is included as a recommendation in the geotechnical consultant report, the project scope of work must address requirements for compaction and drainage away from the structure.

Rebuild and Recovery [MalibuRebuilds.org](https://MalibuRebuilds.org) | Email questions to [info@MalibuCity.org](mailto:info@MalibuCity.org)  
Sign up for non-emergency information at [MalibuCity.org/WoolseyAlerts](https://MalibuCity.org/WoolseyAlerts)  
[www.MalibuRebuilds.org](https://www.MalibuRebuilds.org)



# MALIBU REBUILDS

# Additional Rebuild Topics and Handouts

- Grading
- Fine Grading
- R&R
- Full Grading

[illegible]

## Additional Handouts

Featured Handout:  
Permit Requirements for  
Installing Temporary Housing



Step 3

**Inspections and Occupancy**



CITY OF MALIBU

# MALIBU REBUILDS

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## STEP 3 Construction Inspections and Occupancy

- Building Safety Inspections
- Planning, Public Works, and Fire Department Inspections
- Certificate of Occupancy – you're home!





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## Resources

- **City Hall – Fire Rebuild Counter**  
Monday-Thursday 7:30 AM to 5:30 PM, and Friday 7:30 AM to 4:30 PM
- For information on debris removal, tax relief, mental health resources and more:  
<https://www.lacounty.gov/recovery/>
- Forms, handouts, FAQs, and information about the rebuild process: [maliburebuilds.org](http://maliburebuilds.org)
- To submit a public records request: [malibucity.org/records](http://malibucity.org/records)
- Information on debris removal: [malibucity.org/Debris](http://malibucity.org/Debris)
- Sign up for emergency alerts at [malibucity.org/alerts](http://malibucity.org/alerts)

# Building Code Updates

EFFECTIVE: January 1, 2020

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## Chapter 7A

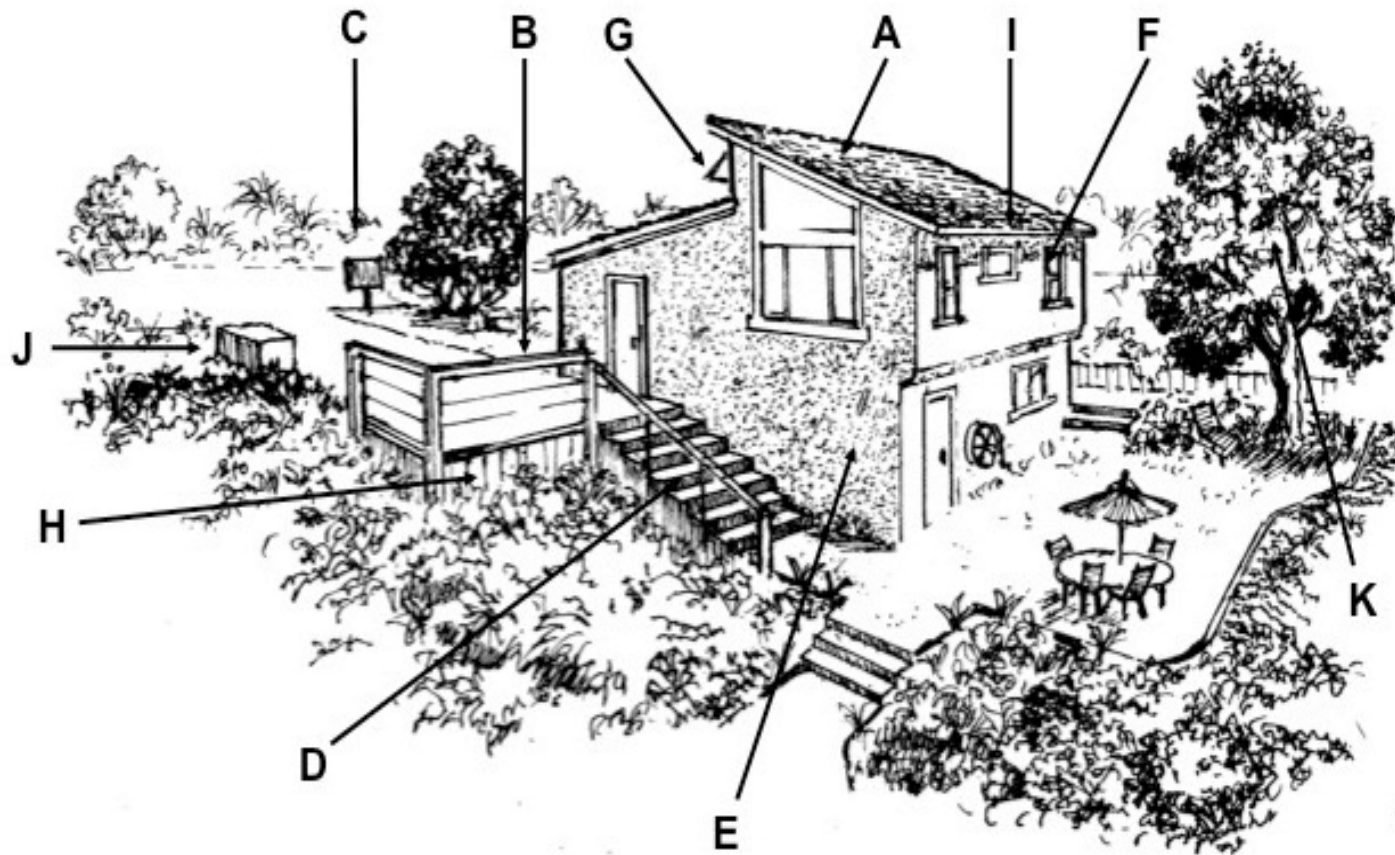
- WILDLAND URBAN INTERFACE/HIGH FIRE HAZARD ZONES



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## R337.8.2.2 Operable Skylights

**CHANGE TYPE:** Modification

**CHANGE SUMMARY:** Operable skylights are allowed to be installed in Fire Severity Zones.

**2019 CODE:** [R337.8.2.2]

**R337.8.2.2 Operable Skylights.** Operable skylights shall be protected by a noncombustible mesh screen where the dimensions of the openings in the screen shall not exceed  $\frac{3}{8}$ -inch (3.2 mm).

**~~R337.8.2.2.1 Structural glass veneer.~~** *The wall assembly behind structural glass veneer shall comply with Section R337.7.3 Exterior Walls.*

**CHANGE SIGNIFICANCE:** This purpose of the change is to prevent combustible materials, debris, and embers from entering into a functional, open skylight. The way in which they intend to keep these materials out of skylights in Very High Fire Hazard Severity Zones is by installing a noncombustible mesh screen in the operable skylight in new construction.

CBC Chapter 7A will also be regulated within *California Residential Code* (CRC) Section R337, which is a mirrored section within the CRC.

## R337.8.4

# Garage Door Perimeter Gap

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**CHANGE TYPE:** Modification

**CHANGE SUMMARY:** The protection of the gap created by the installation of a garage door is included in the CRC.

**2019 CODE:** ~~R337.8.4 Garage Door Perimeter Gap Weather stripping. Exterior garage doors shall be provided with weather stripping to resist the intrusion of embers from entering by preventing through gaps between doors and door openings, at the bottom, sides and tops of doors, from exceeding gaps exceed 1/4-inch (3.2 mm). Weather stripping or seals shall be installed on the bottom, sides, and tops of doors to reduce gaps between doors and door openings to 1/4-inch (3.2 mm) or less. Gaps between doors and door openings shall be controlled by one of the following methods:~~

- ~~1. Weather stripping products made of materials that:(a) have been tested for tensile strength in accordance with ASTM D638 (Standard Test Method for Tensile Properties of Plastics) after exposure to ASTM G155 (Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials) for a period of 2000 hours, where the maximum allowable difference in tensile strength values between exposed and nonexposed samples does not exceed 10 percent, and (b) exhibit a V-2 or better flammability rating when tested to UL 94, Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.~~
- ~~2. Door overlaps onto jambs and headers.~~
- ~~3. Garage door jambs and headers covered with metal flashing.~~

# TITLE 24 CALIFORNIA ENERGY COMMISSION, PART 6

## ENERGY CODE CHANGES

On May 9, 2018, the California Energy Commission adopted the 2019 Title 24, Part 6 Energy Code updates that will take effect January 1, 2020. Key changes for new residential and non-residential projects include:

Residential (new ground up construction that has three habitable stories or less from grade):

1. **The installation of solar photovoltaics will become mandatory.**
2. New HERS (Home Energy Rating System) testing for:
  - a. Kitchen exhaust hood ventilation test, which must provide 100CFM
  - b. Blower door test if utilizing a continuously running exhaust fan per Section 150.0(o)1E,
  - c. Quality insulation installation (QII) will be Prescriptively required.
  - d. HVAC systems will need to be designed closer to ACCA Manual J, D, & S which means duct sizing may increase, return air sizing may increase, and equipment sizing may decrease. There will need to be enough plenum space to ensure ducts are not smashed or pinched.

**Filter ratings will increase to MERV 13**

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- **Gov. Newsom Signs Law Exempting Wildfire Victims From California Solar Panel Mandate**

Newsom signed a law (AB 178) that temporarily exempts some homeowners from the new rules if they are rebuilding in an area where the governor has declared a state of emergency. The exemption will end in 2023.

“Many of our communities in California that have been devastated by catastrophic wildfires and floods, particularly the people of Paradise, are desperate to get their lives back on track and to rebuild their homes,” Newsom said in a signing statement. “AB 178 should hasten that effort.”







#### WHAT'S NEW IN THE 2019 CODE?

## RESIDENTIAL LIGHTING

*Changes to mandatory lighting requirements in California's 2019 Building Energy Efficiency Standards*

California's new residential Building Energy Efficiency Standards (Energy Standards) take effect on January 1, 2020. The 2019 Energy Standards focus on several key areas to improve the energy efficiency of newly constructed buildings, additions and alterations to existing buildings. The most significant residential efficiency improvements address photovoltaic systems, walls, gas furnaces and lighting. Single-family homes built under the 2019 Energy Standards will use about 7 percent less energy due to energy efficiency measures as compared to homes built under the 2016 standards. Once rooftop solar electricity generation is factored in, homes built under the 2019 Energy Standards will use an estimated 53 percent less energy than those under the 2016 Energy Standards. This will reduce greenhouse gas emissions by an estimated 700,000 metric tons over three years, equivalent to removing 115,000 fossil-fueled cars off the road.

### MAJOR CHANGES



#### NEW LIGHT SOURCE CATEGORIES ADDED

Step lights and path lights are now included in the same category as night lights. Light sources integral to drawers, cabinets and linen closets are now regulated by the Energy Standards. If these light sources are greater than 5 Watts or emit more than 150 lumens, then they must comply with the high-efficacy requirements of **Table 150.0-A**, otherwise the light sources are exempt.



#### MARKING UPDATE

Light sources meeting the new 2019 JAB performance requirements must have an approved marking on the light source itself. For products that meet the 2019 requirements, the marking must be 'JAB-2019,' or 'JAB-2019-E' for products that have also passed the Elevated Temperature Life Test.



#### COLOR QUALITY

JAB now aligns with the **Appliance Efficiency Regulations (Title 20)** for color rendering index (CRI) requirements of state regulated LED lamps. In addition, the 2019 JAB now requires that all light sources be capable of providing a correlated color temperature (CCT) of 4,000 Kelvin or less.

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*This guide is not intended to be used in lieu of California's Building Energy Efficiency Standards, and it is not a substitute for the code itself.*

*Please visit [www.energy.ca.gov/title24/2019standards](http://www.energy.ca.gov/title24/2019standards) to download the official 2019*

# CALIFORNIA'S 2019 RESIDENTIAL BUILDING ENERGY EFFICIENCY STANDARDS

CALIFORNIA ENERGY COMMISSION

The state's energy efficiency standards for new buildings and appliances have saved consumers billions in lower electricity and natural gas bills. The 2019 Building Energy Efficiency Standards for residential buildings includes a first-in-the-nation requirement to install solar photovoltaic systems. Other features enable homes to reduce the electricity demand from the grid, helping to reduce energy bills and the carbon footprint.

## \$19,000

SAVINGS OVER A  
30 YR. MORTGAGE

INITIAL COST  
\$9,500



### SOLAR PHOTOVOLTAIC SYSTEM

Promote installing solar photovoltaic systems in newly constructed residential buildings. The systems include smart inverters with optional battery storage. This will increase the self-utilization of the electricity generated to power the home's electricity loads including plug-in appliances. California is the first state in the nation to require smart systems on homes.



### DEMAND RESPONSE COMPLIANCE OPTIONS

Encourage battery storage and heat pump water heaters that shift the energy use of the house from peak periods to off-peak periods. Utilities moving to time-of-use pricing assists the grid to meet the state's climate change goals and helps homes reduce energy bills.



### HEALTHY INDOOR AIR QUALITY

Enable using highly efficient filters that trap hazardous particulates from both outdoor air and cooking and improve kitchen ventilation systems. Moving air around and in and out of the home while filtering out allergens and other particles makes the home healthier.



### BUILDING ENVELOPE

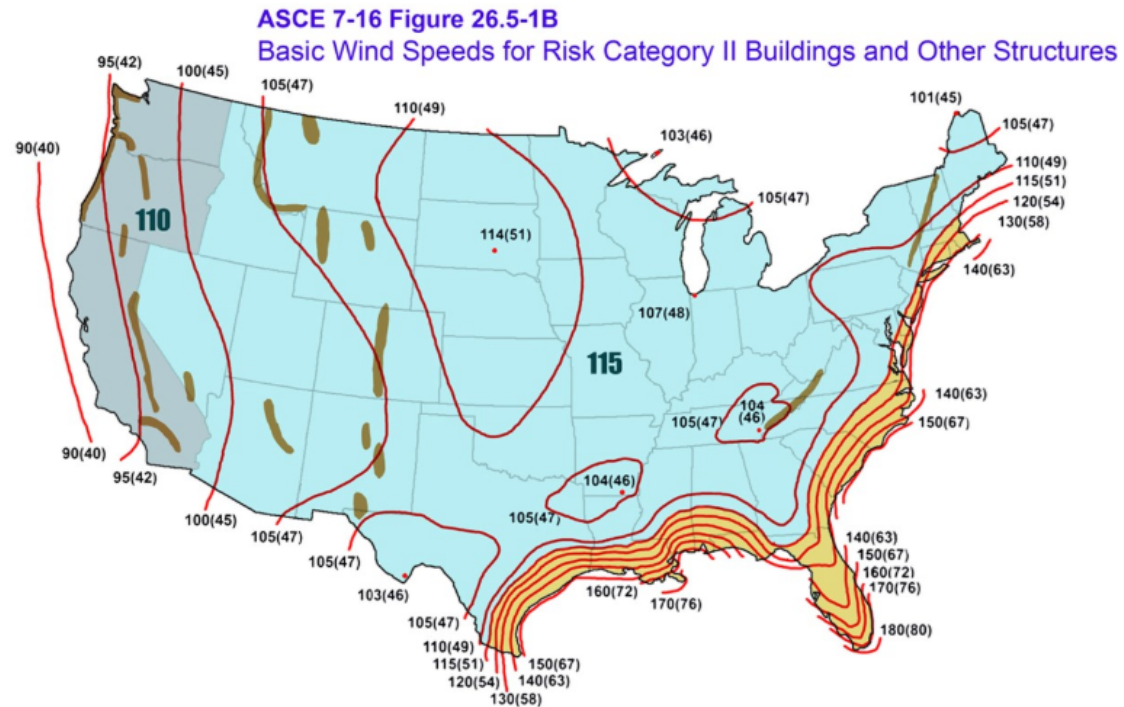
Strengthen insulation in attics, walls and windows to improve comfort and energy savings. Keeping the heat out during the summer and warm air during the winter makes a home more resilient to climate change.

# Significant Structural Changes

The 2019 California Building Code (2019 CBC), **NEW Structural reference standards** – for design loads, structural steel, masonry, wood, and cold-formed steel. The reference standard for concrete, ACI 318-14, remains unchanged. Also remaining unchanged is the 2015 edition of the wood standard: *Special Design Provisions for Wind and Seismic*.

The most important changes in the structural provisions of the 2019 CBC/2018 IBC result from the referenced standard for design loads being updated from ASCE 7-10 (including Supplement No 1) to ASCE 7-16. The design wind speed maps as well as the maps for seismic ground motion parameters have changed, along with many other important aspects of design.

Design Wind Speed Map for RC II Buildings





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## NEW STREAMLINE PROCESS

- NEW PUBLIC COUNTER HOURS 8:00AM-4:00PM
- NEW OVER THE COUNTER REVIEWS FOR SECOND SUBMITTALS  
ARCHITECTURAL/STRUCTURAL/  
GEOTECHINICAL/GRADING
- NEW FINAL STAMPS COORDINATION  
(INTERDEPARTAMENTAL ROUTING 2-DAYS)
- NEW COORDINATION WITH AGENCIES (SOCALGAS/SCE/FIRE)





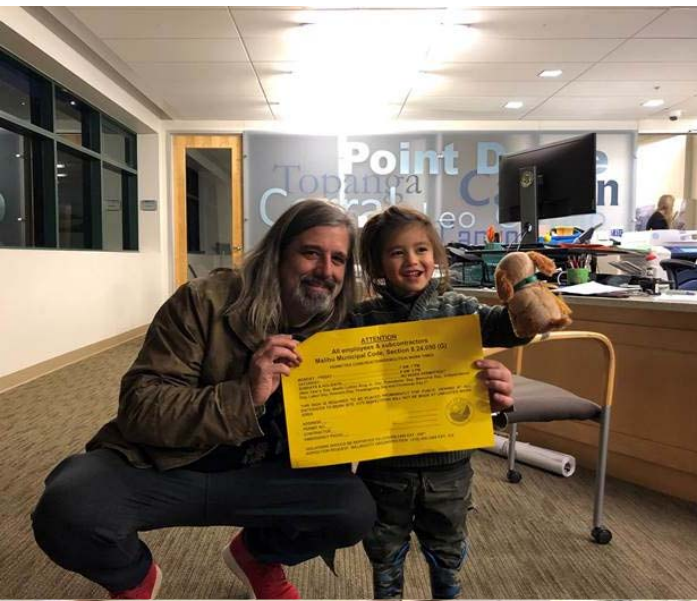
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## WORKING ON

- IN HOUSE FIRE PLAN CHECK REVIEWS ( LA COUNTY FIRE)
- ELECTRONIC SUBMITTAL FOR FIRE DEPARTMENT
- CONTINUE OUTREACH TO ARCHITECTS/CONTRACTORS/ENGINEERS
- CONTINUE OUTREACH WITH COMMUNITY MEMBERS
- CONSTRUCTION HOURS
- STAGING OF MATERIALS
- CONSTRUCTION TRAILERS
- METER RELEASES COORDINATION





**".....Her home was literally Heaven on Earth. Yesterday we were able to pick through what was left of that little piece of Heaven.....and there wasn't much more than ash. BUT...this coffee cup somehow survived and I take it as a sign that this place will rise from the ashes and be beautiful again. My heart and prayers are with anyone who has been affected by these fires."**

