# MOLTON GARAGE ADDITION AND ROOF CONVERSION

### ■ VICINITY MAP:



### ■ PLANNING INFORMATION:

| APN:           | 047-049-150    |
|----------------|----------------|
| ZONING:        | R-1/S-17/DR/CD |
| BLOCK NO.:     |                |
| LOT NO.:       |                |
| MAP PAGE/GRID: |                |
| LOT SIZE:      | 6,250 S.F.     |
| ZIP CODE:      | 94018          |
| YEAR BUILT:    | 1965           |
| BUILDING SIZE: | 1,474 S.F.     |
| LEVELS:        | 1              |

### PROJECT DATA:

|                             | EXISTING      | PROPOSED   | TOTAL                      | -           |
|-----------------------------|---------------|------------|----------------------------|-------------|
| LOT AREA:                   | 6,250 S.F.    | S.F.       | 6,250 S.F.                 |             |
| LIVING AREA:                | 1,474 S.F.    | S.F.       | 1,474 S.F.                 |             |
| CARPORT:                    | -342 S.F.     | S.F.       | S.F.                       | -           |
| GARAGE AREA:                | S.F.          | 857 S.F.   | 857 S.F.                   |             |
| DECK AREA ABOVE 18":        | 112 S.F.      | S.F.       | 112 S.F.                   |             |
| SHED:                       | 41 S.F.       | S.F.       | 41 S.F.                    | _           |
| COVERED PORCH AREA:         | S.F.          | 73 S.F.    | 73 S.F.                    |             |
| MAXIMUM LOT COVERAG         | E ALLOWED     | (50 %):    | 3,125 S.F.                 |             |
| <b>EXISTING LOT COVERAG</b> |               | ,          | 1,969 S.F.                 | _           |
| PROPOSED LOT COVERA         | GÈ (9.41 %):  |            | 588 S.F.                   | <b>A</b>    |
| TOTAL LOT COVERAGE (        | 40.91 %):     |            | (2,007.0.F <sub>00</sub> ) | <u>/2</u> \ |
| MAXIMUM FLOOR AREA F        | RATIO ALLOV   | VED (53 %) | 3,312.5 S.F.               |             |
| EXISTING FLOOR AREA R       | RATIO (29.71° | %)         | 1,857 S.F.                 | 7           |
| PROPOSED FLOOR AREA         | RATIO (9.41   | %)         | 588 S.F.                   |             |
| TOTAL FLOOR AREA RAT        | IO (39.12 %)  |            | 2,445 S.F.                 |             |

### ■ LOCAL AND STATE CODES:

All work shall comply with the current 2019 CA Building Code and comply with the County of San Mateo Code and Planning Ordinance including, 2019 CA Mechanical Code, 2019 CA Plumbing Code, 2019 Energy Code, 2019 California Green Building Standard Code, 2019 California Electrical Code, and the 2019 California Residential Code.

All walls to be sheetrocked with and 1/2" drywall and 5/8" drywall on all ceilings.

All walls to be insulated with R-21 Batt Insulation.

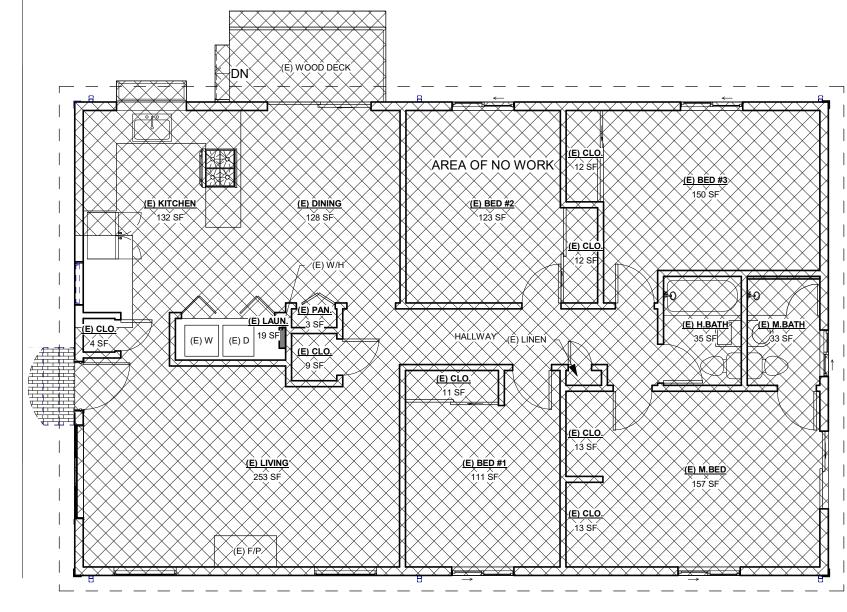
Ceilings to have R-39+ Batt Insulation.

Floors to have R-19 Batt Insulation.

All tempered glass shall be rated.

All windows shall be properly flashed with modified bitumen and Copper or stainless steal z-metal flashing at header trim.

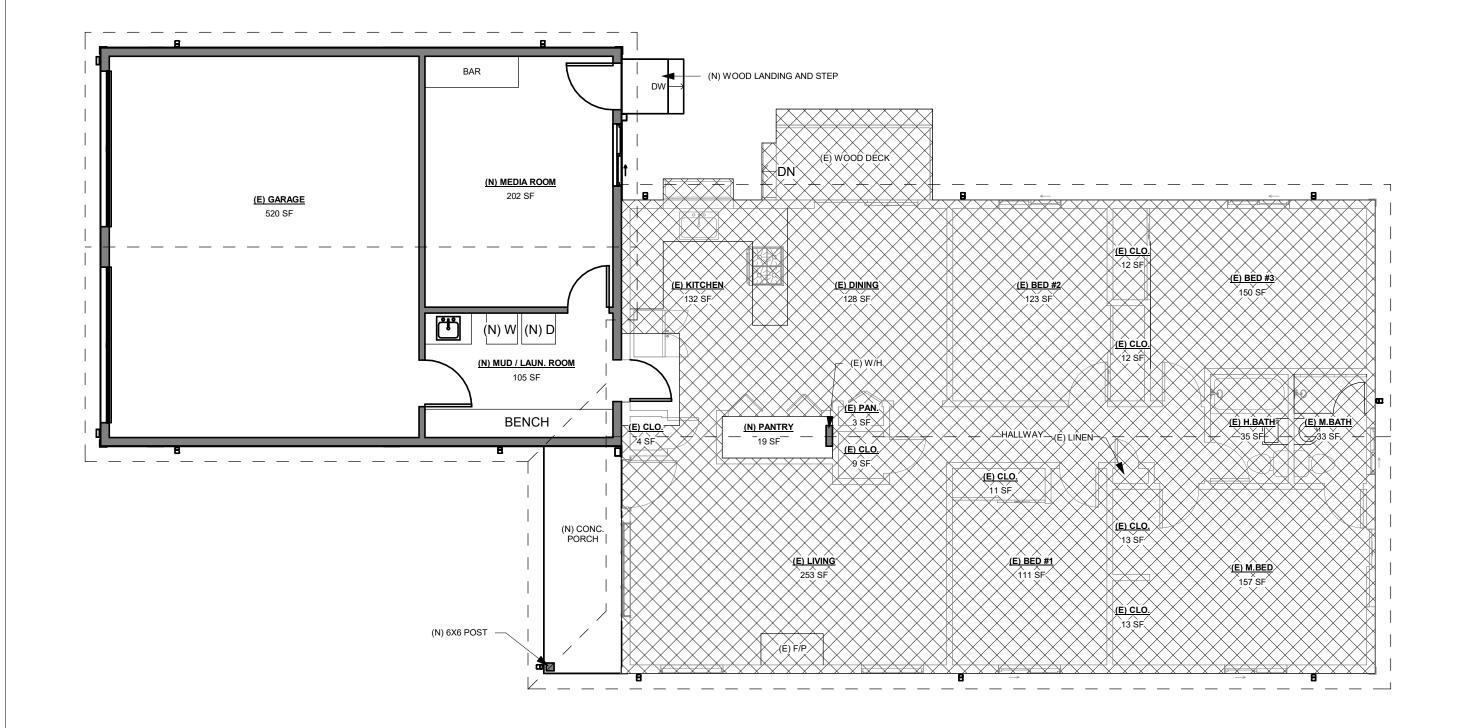
#### ■ PLAN SHEET LEGEND: ■ EXISTING FLOOR PLAN



■ WORK DESCRIPTION: RESIDENCE PER PLAN

REMOVE EXISTING CAR PORT; ADD APPROXIMATELY 839 S.F. OF GARAGE; ADD TRUSS SYSTEM OVER EXISTING ROOF OF

# ■ PROPOSED FLOOR PLAN (NOT ALL DETAILS MAY BE SHOWN):



## ■ GENERAL NOTES

NO.:

GENERAL NOTES AND LEGEND

PROJECT NOTES AND SPECIFICATIONS

BUILDING MATERIAL

CODE

C-2

GB.1

GB.2

**GRADING AND DRAINAGE PLAN** 

EXISTING / DEMOLITION SITE PLAN
PROPOSED SITE PLAN
EXISTING / DEMOLITION AND PROPOSED FLOOR

EXISTING / DEMOLITION AND PROPOSED SOUTH

ELEVATION

EXISTING / DEMOLITION AND PROPOSED SOUTH

EXISTING / DEMOLITION AND PROPOSED NORTH

ELEVATION

EXISTING / DEMOLITION AND PROPOSED EAST

CONSTRUCTION BEST MANAGEMENT PRACTICES

2019 CALIFORNIA GREEN BUILDING STANDARD

2019 CALIFORNIA GREEN BUILDING STANDARD

EROSION AND SEDIMENT CONTROL PLAN

**TOPOGRAPHIC & BOUNDARY SURVEY** 

All work shall comply with applicable codes and trade standard which govern each phase of work, including, but not limited to: 2019 California Building Code (C.B.C.), 2019 California Mechanical Code (CMC), 2019 National Electrical Code (NEC), 2019 California Electrical Code (CEC), 2019 California Fire Code (CFC), 2019 California Plumbing Code (CPC), 2019 California Energy Standards (CES), and all the applicable city, state, or local codes and/or legislation including 2019 California Green Building Standard Code.

It is the responsibility of the general contractor and all sub-contractors to check and verify all the dimensions and conditions indicated on these drawings and notify the designer of any discrepancies prior to commencing their work.

No guarantee for quality of construction is implied by the architectural documents, and the general contractor shall assume full responsibility for any or all construction deficiencies.

The owner & contractor agrees to indemnify, defend, & hold the designer (HAWK DESIGN & CONSULTING), harmless from and against any and all claims liabilities, suits demands, losses, costs, and expenses, including reasonable attorney's fees and all legal expenses and fees incurred on appeal and all interest thereon, accruing or resulting to any and all persons, firms, or any other legal entity on account of any damage to property or persons, including death, arising out of the performance or non-performance of obligations under this agreement, except where the designer is found to be solely liable for such damages or losses by a court or forum of competent iurisdiction.

The general contractor shall verify size, location, & characteristics of all work and equipment supplied by the owner or others, with the manufacturer or supplier, prior to the start of related work.

Do not accumulate trash or debris on site. Promptly remove material from site per local ordinance.

All dimensions given are to face or wall unless otherwise noted.

All dimensions take precedence over scale.

It is important that all delivery times be checked and holds placed on materials as required to meet construction schedule.

Contractor to seal all penetrations, (e.g. from pipes, drilled holes, etc.), between floors and walls.

All new walls or patched openings in existing walls shall be finished to match adjacent surfaces.

Seal all control joints where exposed to view. Sealant color shall match the color of the finish material.

Provide wood blocking in all stud walls at millwork and special item anchoring

It is the intent of the drawings that all exposed surfaces receive finishes as indicated on the drawings unless specifically noted otherwise. The general contractor shall assume full responsibility for the coordination of the complete finish-out of the project. Any surfaces which do not have a specific finish noted, nor are noted to remain unfinished, shall be brought to the attention of the designer and finished per the designer's instructions.

Provide USG Durock cement board at all areas subject to water or moisture.

The temporary (N.F.R.C.) Label which states the listed u-value for all fenestration products shall not be removed prior to inspections.

Verify rough-in dimensions for equipment provided on this contract and equipment by others.

All equipment, fixtures, & other manufactured items shall be installed in strict accordance with the manufacturer's recommendations.

Electrical, plumbing, & HVAC are design/build portions of the work

Design/build portions of the work shall incorporate all design elements, specific fixtures, apparatus, appliances, & performance & aesthetic criteria shown in the these documents in their designs. design/build sub-contractors shall provide all necessary drawings & calculations to size lines & equipment & to obtain respective permits. No compensation shall be made by the planning consultant or any design or related fees for these portions of the work.

Details indicated on the drawings are representative and typical. All attachments and connections shall conform to best practice and shall be the contractor's responsibility.

These drawings are "instruments of service" & therefore the copyright property of HAWK DESIGN & CONSULTING. The design and specifications are for use only on the subject property and project, unless prior agreements have been made. Any use, re-use, change, revisions or reproductions of these drawings without expressed written permission of HAWK DESIGN & CONSULTING is strictly prohibited by law. In the event of unauthorized use of these drawings, the user shall hold the designer harmless and bear responsibility of any related legal costs.

# DESIGN | CONSULTING

HAWK

P.O. BOX 3535 HALF MOON BAY, CA 94019 650 . 560 . 8100 www.hawkdesignandconsulting.com

#### **■** PROJECT:

**MOLTON GARAGE ADDITION** AND ROOF CONVERSION

#### ■ OWNER:

SCOTT AND KELLEY MOLTON

### ■ PROJECT ADDRESS:

239 SEVILLA AVE EL GRANADA, CA 94018

# **■** CONTACT INFORMATION

PHONE: (650)862-1113 EMAIL: scott.molton@gmail.com

#### **■** APPROVAL

**OWNER/AGENT** 

**GENERAL CONTRACTOR** 

**SUBCONTRACTOR** 

| NO. | REVISION/DESCRIPTION | DATE    |
|-----|----------------------|---------|
| 1   | PLANNING SUBMITTALS  | 03/21/2 |
| 2   | PLANNING REVISION 1  | 06/08/2 |
| (3  | PLANNING REVISION 2  | 08/16/2 |
|     |                      |         |
|     |                      |         |
|     |                      |         |
|     |                      |         |
|     |                      |         |
|     |                      |         |

### SHEET TITLE: **GENERAL NOTES AND**

**LEGEND** 

CAD FILE:

ARCHITECTURAL

SCALE:

PLEASE VERIFY ALL DIMENSIONS AND REVIEW DETAILS AND NOTES FOR, BUT NOT LIMITED TO, CABINETS, PLUMBING, STRUCTURAL, AND **ELECTRICAL COMPONENTS.** 



- 1. The work included under this contract consists of all labor, materials, transportation, tools and equipment necessary for the construction of the project leaving all work ready for use; excluding materials provided by owner.
- 2. All construction shall conform to the 2019 California building, 2019 California residential, 2019 California fire, 2019 California mechanical, 2019 California electrical, 2019 California energy, 2019 California plumbing and 2019 California green building standards codes.
- 3. Conflict, the most stringent requirements shall apply.
- 4. All work described in the drawings shall be verified by the contractor for dimension, grade, extent and compatibility to the existing site. Any errors, omissions, conflicts, discrepancies and unexpected conditions that effect or change the work described in the contract documents shall be brought to the designers attention immediately. Do not proceed with the work in the area of discrepancy until all such discrepancies are resolved. If the contractor chooses to do so, contractor shall be proceeding at their own risk. Any revision to the set of plans must be submitted to and approved by the **County of San Mateo** building department prior to the revision being completed.
- 5. The general contractor shall maintain a current and complete set of the construction approved plans for use of all the trades, and shall provide all the sub
- with current construction documents as required.
- 6. The general contractor shall verify and assume responsibility for all dimensions and site conditions. The general contractor shall inspect the existing premises and take notes of existing conditions prior to submitting prices. No claim shall be allowed for difficulties encountered which could have reasonably been inferred from such and examination.
- 7. Written dimensions take precedence. Do not scale drawings.
- 8. All dimensions to and from new construction when shown in plan are to face of interior finish or structural member unless otherwise noted.
- 9. All dimensions on reflected ceiling plans and elevations are from face of finish or center line of column to center line of fixtures(s).
- 10. All vertical dimensions are to face of finish & finish floor, unless otherwise noted. 11. All dimensions noted "verify" and "V.I.F." are to be checked by contractors prior
- to construction. Immediately report any variances to the designer for resolution. 12. All walls are wood studs @ 16" O.C. unless otherwise noted.
- 13. Coordinate all work with existing conditions, including but not limited to irrigation pipes, electrical conduit, water lines, gas lines, drainage lines, etc.
- 14. Contractors shall provide all seismic bracing and hold-down clips as required by code for all suspended ceiling and soffit framing conditions.
- 15. Provide adequate temporary support as necessary to assure the structural value or integrity of the building.
- 16. Protect all existing building and site conditions to remain including walls, cabinets. finishes, trees and shrubs, paving, etc.
- 17. Details shown are typical. Similar details apply in similar conditions.
- 18. Verify all architectural details with structural, civil, and design/build before ordering or installation of any work.
- 19. Where locations of windows and doors are not dimensioned, they shall be centered in the wall placed two stud widths from adjacent wall as indicated on the drawings.
- 20. Omissions from the drawings and specification or the mis-distributions of the work which is manifestly necessary to carry out the intent of the drawings and specifications, or which is customarily performed, shall not relieve the contractor from such omitted or misdescribed details of the work as if fully and completely set forth and described in the drawings & specifications.
- 21. All changes in floor materials occur at centerline of door or framed opening unless otherwise indicated on the drawings.
- 22. Install all fixtures, equipment and materials per manufacturers recommendations. 23. Verify clearances for vents, chases, soffits, fixtures, etc. Before any construction,
- ordering, or installation of any items of work. 24. Sealant, caulking and flashing, etc. Locations shown on drawings are not intended to be inclusive. Follow manufacturer's installation recommendation and
- standard industry and building practices. 25. All roof deck penetrations and exterior wall openings shall be guaranteed by the contractor to be water tight for a minimum of five years after substantial
- completion of all work under this contract. 26. The general contractor shall remove all rubbish and waste materials of all

subcontractors/trades on a regular basis, and shall exercise a strict control

- over job cleaning to prevent any direct debris or dust from affecting, in any way, finished areas in or outside job site. 27. Contractor shall leave premises and all affected areas clean and orderly, ready for
- occupancy. This includes cleaning of all glass (inside and outside) and frames, both new and existing.
- 28. All wood in contact with concrete shall be pressure treated.
- 29. A certificate of construction compliance, signed by the general based upon his observation of the construction work shall be submitted to the inspecting building official prior to issuance of a certificate of occupancy.
- 30. All exterior windows to be weathered-stripped per title 24 requirements.
- 31. Install smoke detectors in accordance with specifications and in conformance with local fire marshal requirements.
- 32. Glass subject to human impact shall be safety glazing material to meet state and federal requirements.
- 33. Survey monuments within the area of construction shall be preserved or reset by
- a registered civil engineer or a licensed land surveyor. 34. Provide on site health and safety facilities including temporary bathrooms and wash
- 35. All non-compliant plumbing fixtures shall be replaced with appropriate water conserving plumbing fixtures, plumbing replacement is required prior to issuance of a certificate of final completion, certificate of occupancy, or final permit approval by a local building department. [CALLGREEN 4.303.1] NON COMPLIANT PLUMBING FIXTURE MEANS ANY OF THE FOLLOWING [CALIFORNIA CIVIL CODE. 1101.3(c)
- (1) any toilet manufactured to use more than 1.6 gallons of water per flush. (2) any urinal manufactured to use more than one gallon of water per flush. (3) any showerhead manufactured to have a flow capacity of more than 2.5 gallons of water
- (4) any interior faucet that emits more than 2.2 gallons of water per minute.
- 36. Mechanical and gravity outdoor air intake openings shall be located a minimum of 10 feet from any hazardous or noxious contaminant, such as vents, chimneys, plumbing vents, streets, alleys, parking lots and loading docks, except as otherwise specified in this code. Toilet rooms, bathrooms and kitchens shall not be considered hazardous or
- 37. Where a water heater is installed in an attic, attic-ceiling, floor-ceiling assembly, or floor-subfloor assembly where damage results from a leaking water heater, a watertight pan of corrosion resistant materials shall be installed beneath the water heater with not less than <sup>3</sup>/<sub>4</sub> of an inch diameter drain to an approved location. [CPC 507.5]

#### ASBESTOS, LEAD AND MOLD REMEDIATION AND ABATEMENT

REQUIRED PROCEDURES. REFERENCE TO HARZARD MANAGEMENT SERVICE, INC. HAZMAT REPORT INCLUDING BUT NOT LIMITED TO REMEDIATION AND GENERAL REQUIREMENTS FOR REMOVAL OF FLOORING MATERIALS, LEAD BASED PAINT AND LEAD BASED TILE. DATED FEBRUARY 1, 2012.

**PLEASE NOTE:** Contractor and owner is notified, dwelling built prior to 1978 may present exposure to lead poisoning as a result of lead-based paint and/or lead-based material hazards. Therefore the contractor is required to perform a pre-construction risk assessment, testing and or inspection for possible lead-based hazards prior to ratifying any agreement with owner to perform scope of work. Contractor is responsible for all lead-based paint or other material abatement in this scope, in line with but not limited to the federal Department of Environmental Protection (EPA) and all applicable other cities, state, or local codes and or legislation. ALSO NOTE: Contractor and owner is notified "popcorn" ceilings. 9x9 Vinvl Composite Tile (VCT) tiles, flooring mastics, flooring, ducting, roofing and siding may and can contain harmful asbestos: therefore, contractor is responsible to identify such hazards and perform pre-construction risk assessment testing and inspection for possible asbestos hazards prior to ratifying any agreement with owner to perform scope of work. Contractor is responsible for all asbestos abatement regarding this scope, in line with but not limited to the federal Department of Environmental Protection (EPA) and all applicable other cities, state, or local codes and or legislation. Contractor to test and abate lead tiles per county and state requirements. REGARDING MOLD INSPECTION: Molds, fungus, mildew, and similar organisms ("Mold Conditions") may exist in the property of which the owner and designer is unaware and has not actual knowledge. The mold conditions generally grow in places where there is excessive moisture, such as where leakage may have occurred in roofs, pipes, walls, plant pots or where there has been flooding. A professional inspection may not disclose mold conditions. As a result, owner or contractors may wish to obtain an inspection specifically for mold conditions to more fully determine the condition of the property and this environmental status prior to commencing work. Neither the designer, owner nor owner's agents are experts in the field of mold conditions and other related conditions therefore contractors shall not rely on designers, owners or its agents for information relating to such conditions. Contractor is strongly encouraged to satisfy itself as to the condition of the property prior to any contractual agreement. Hold harmless: contractors decision to commence with approved scope of work on the property is independent of representation of the designer, owner or owners agents involved in the transaction regarding mold conditions. accordingly, contractor agrees to indemnify and hold harmless designer and owner in the event any mold conditions are present on the property.

#### PAINT PREPERATIONS

- 1. Lead paint remediation as indicated by ASBESTOS, LEAD AND MOLD REMEDIATION AND ABATEMENT per above. Reference to Hazard Management Service, INC. Hazmat report including but not limited to remediation and general requirements for removal of flooring materials, lead based paint, lead based tile. Dated February 1, 2012.
- 2. Nail holes or imperfections to be filled with a bondo or wood putty and sanded. 3. New wood to be painted promptly (within a few weeks) because weathering of the
- wood will reduce adhesion of primer and paint. 4. Dull any shiny (mill glazed) areas with fine grit (#220) sandpaper.
- 5. Moisture in treated wood left from the treatment process to be allowed to dry prior to
- painting; once constructed, two weeks' exposure to the weather to be adequate for most siding materials. 6. Previously painted wood with a sound paint surface, will require removal of dirt, chalk, etc. by scrubbing with detergent and water (rinse thoroughly) or by careful
- be very soft, such as old and weathered cedar and redwood, can easily be damaged by high pressure jet of power washing 7. Previously painted wood with flaking or peeling paint req. removal of all loose or poorly adhering paint. If gloss or semigloss paint will be used, follow by sanding with

power washing using plain water; NOTE: Contractor responsible for woods that tend to

- fine grit (#220). 8. Dull any glossy paint by sanding with fine (#220) grit garnet paper; wear eye protection, dust mask and work gloves.
- 9. Treat any mildew with a 3:1 water: household bleach mixture, leaving it on for 20 minutes and adding more as it dries; wear eye and skin protection; rinse thoroughly; 10. Refresh the surface of any weathered wood by sanding with medium grit (#120) garnet paper, sanding in the direction of the grain.

### **SURFACE PREPERATION - STUCCO REQUIREMENTS**

1. Lead paint remediation as indicated by ASBESTOS, LEAD AND MOLD REMEDIATION AND ABATEMENT per above. Reference to Hazard Management Service, INC. Hazmat report including but not limited to remediation and general requirements for removal of flooring materials, lead based paint, lead based tile. Dated February 1, 2012.

2. Fresh stucco surfaces must be cured for 30 days prior to painting unless otherwise authorized in writing.

3. If efflorescence is present, remove by hand wire brushing; wear eye protection and gloves; identify and eliminate any source of water from behind the stucco that could have caused the efflorescence scrape out and widen any cracks; brush out dust, and seal with 100% acrylic and siliconized acrylic caulk; make second application in several hours if needed.

4. Treat any mildew with a 3:1 water: household bleach mixture, leaving it on for 20 mins and adding more as it dries: wear eye and skin protection: rinse thoroughly. 5. Remove dirt, chalk, dust, unbound sand, treated mildew, etc. by scrubbing with detergent and water, and rinse thoroughly: or power wash with plain water, taking care to not drive water into cracks or porous areas.

### WINDOW DATA

- 1. ALL WINDOWS TO MEET SECTION R310.1 LISTED
- **BELOW:** A. Openings must be no more than 44" above the
- B. Opening shall have a min. clear opening of 5.7
- C. Opening shall have a min. clear height of 24". D. Openings shall have a min. clear width of 20".

2. All windows shall meet Title-24 energy specifications.

Please note: Installation stickers may be required by local officials as proof of new windows meeting title 24 or safety requirements.

- 3. All windows shall have Low-E glass.
- 4. Z-bar flange may need to be ripped and caulked to fit opening

5. Include ANS and all applicable CAL fire codes or WUI(Wild Land Urban Interface codes).

6. Provide safety glazing for tub/shower enclosures and doors. Minimum width of shower doors is 22". Doors shall open outward. Shower door or rod shall be installed prior to final.

7. Provide safety glazing for windows in tub or shower enclosures within 60" above the drain inlet.

#### STAIR AND HANDRAIL DATA

1. All new (N) stairs shall have a maximum rise of 7 3/4" and a minimum run of 11". The maximum drop (elevation change) at all door thresholds shall be 7

(a) Stairways shall have handrails or stair railings on each side, and every stairway required to be more than 88 inches in width shall be provided with not less than one intermediate stair railing for each 88 inches of required width. Intermediate stair railings shall be spaced approximately equal within the entire width of the stairway.

Note: Intermediate stair railings may be of single rail construction.

#### **Exceptions:**

(1) Stairways less than 44 inches in width may have one handrail or stair railing except that such stairways open on one or both sides shall have stair railings provided on the open side or sides.

(2) Stairways having less than four risers need not have handrails or

(3) Stairways giving access to portable work stands less than 30 inches

(4) Stairs that follow the contour of tanks or other cylindrical or spherical structures where the construction requires the inside clearance between the inside stair stringer and wall or tank side to be 8 inches or less, shall not be considered an "open side."

(5) Guardrails may be erected provided a handrail is attached.

(b) A stair railing shall be of construction similar to a guardrail (see Section 3209) but the vertical height shall be in compliance with Section 3214(c). Stair railings on open sides that are 30 inches or more above the surface below shall be equipped with midrails approximately one half way between the steps and the top rail.

Note: Local building standards may require 4-inch spacing of intermediate vertical members.

(c) The top of stair railings, handrails and handrail extensions installed on or after April 3, 1997, shall be at a vertical height between 34 and 38 inches above the nosing of treads and landings. For stairs installed before April 3, 1997, this height shall be between 30 and 38 inches. Stair railings and handrails shall be continuous the full length of the stairs and, except for private stairways, at least one handrail or stair railing shall extend in the direction of the stair run not less than 12 inches beyond the top riser nor less than 12 inches beyond the bottom riser. Ends shall be returned or shall terminate in newel posts or safety terminals, or otherwise arranged so as not to constitute a projection hazard.

(d) A handrail shall consist of a lengthwise member mounted directly on a wall or partition by means of brackets attached to the lower side of the handrail so as to offer no obstruction to a smooth surface along the top and both sides of the handrail. The handrail shall be designed to provide a grasping surface to avoid the person using it from falling. The spacing of brackets shall not exceed 8 feet.

(e) Handrails projecting from a wall shall have a space of not less than 1 1/2 inches between the wall and the handrail.

(f) The mounting of handrails shall be such that the completed structure is capable of withstanding a load of at least 200 pounds applied in any direction at any point on the rail.

Exception: Handrails and stair rails on flights of stairs serving basements or cellars that are covered by a trap door, removable floor or grating when not in use, shall stop at the floor level or entrance level so as not to interfere with the cover in the closed position. (Title 24, Part 2, Section 1006.9.2.7a.)

### **CALGREEN MANDATORY MEASURES**

- A: Duct sytems are sized, designed, and have their equipment selected per section 4.507.2 B: Protect annular spaces around pipes, electric cables, conduits at exterior walls against the passage of rodents per CALGreen Section 4.406.1.
- C: Cover duct openings and other related air distribution component opneings during construction per CALGreen Section 4.504.1.
- D: Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits per CALGreen Section 4.504.2.1. E: Paints, stains and other coatings shall be compliant with VOC limits per CALGreen
- F: Aerosol paints and coatings shall be compliant with product weighted MIR limits for ROC and other toxic compounds per CALGreen Section 4.504.2.3.
- G: Carpet and Carpet systems shall be compliant with VOC limits per CALGreen Section
- H: Minimum 80% of floor area receiving resilient flooring shall comply with CALGreen Section 4.504.4. I: Particleboard, medium density fiberboard (MDF) and hardwood plywood used in interior
- finish systems shall comply with loy formaldehyde emission standards. J: install capillary break and vapor retarder at slab on grade foundations per CALGreen Section 4.505.2.
- K: Check moisture content of building materials used in wall and floor framing before enclosure per CALGreen SEction 4.505.3.

### **FOUNDATION VENT NOTES**

R408.1 Ventilation. The under-floor space between the bottom of the floor and the earth under any building (except space occupied by a basement) shall have ventilation openings through foundation walls or exterior walls.

The minimum net area of ventilation openings shall not be less than 1 square foot (0.0929 m2) for each 150 square feet (14 m2) of under-floor space area, unless the ground surface is covered by a Class 1 vapor retarder material.

When a Class 1 vapor retarder material is used, the minimum net area of ventilation openings shall not be less than 1 square foot (0.0929 m2) for each 1,500 square feet (140 m2) of under-floor space area. One such ventilating opening shall be within 3 feet (914 mm) of each corner of the

Ventilation openings shall be covered for their height and width with any of the following materials provided that the least dimension of the covering shall not exceed 1/4 inch (6.4 mm)

### **EMERGENCY WINDOW ESCAPE REQUIREMENTS**

- 1. EMERGENCY WINDOW ESCAPE REQUIREMENTS (CRC R310.1 TO R310.4)
- A. Min. 24" clear height (CRC R310.1.2) B. Min. 20" clear width (CRC R 310.1.3)
- C. 5.7 SQ.FT. Min. area (CRC R310.1.1)
- D. 44" max sill from finish floor (CRC R 310.1)

#### DEMOLITION NOTES

- 1.1 Principal work in this section.
- A. Demolish existing construction where indicated on the drawings and required by job conditions.
- B. Protect existing construction designated to remain.
- C. Remove demolished items from the site and dispose of them in a legal manner.
- 1.2 Related work in other sections.
- A. Disconnecting, cutting, capping or relocating any active
- utility lines encountered. 1.3 Reference standards.
- A. ANSI A10.6 "safety requirements for demolition" published by

#### the American National Standards Institute. 1.4 Protection.

- A. Cease operations and immediately notify the designer if the safety of existing construction appears to be endangered at any time. Take precautions to support such endangered construction and do not resume operations until authorized by the designer.
- 2.0 Execution 2.1 Ownership of demolished materials.
- A. All demolished materials shall become the contractor's
- property unless otherwise directed by the owner. B. Remove demolished materials from the site and dispose of them in a legal manner. No on-site sale or burning of
- demolished materials will be permitted. 2.2 Performance of work.
- A. The contractor shall be fully responsible for the adequacy and installation of all the temporary shoring
- systems used during the removal of all structural elements. B. The drawings do not necessarily indicate the full extent of the work required to be performed. Inspect the existing construction carefully to determine the full extent of compensation will be allowed because of failure to estimate the full extent of the work for any contingencies
- in connection there with. C. All work shall be performed by the skilled and properly equipped personnel. Demolition and removal of items scaffold high or higher shall be lowered by controlled methods, not by throwing or dropping. Perform cutting and stripping so that the work to remain is undamaged and in such manner that the new work can properly connected with it.
- 2.3 Methods: A. Procedure
- 1. Sawing:
- a. Sawing shall be performed by experienced craftsmen customarily engaged in and properly equipped for the performance of the type of work required by job conditions. b. Provide wet vacuum equipment as required for
- control of waste cooling water. 2.4 Demolition for installation of piping, conduit, etc.
- 2.5 Damage and repair
- A. Repair, restore or replace damage to existing construction which occurs as a result of demolition operations at no additional cost to the owner. 2.6 Clean-up
- A. Do not allow demolished materials to accumulate on the
- premises. Provide for continuous removal and legal off site disposal of demolished materials as work progresses.
- 1. Demolition and preparation
- 1.0 General 1.1 Scope: furnish equipment and perform labor required to execute necessary to complete the contract
- including, but not limited to these major items: a. Removal of perimeter hardscaping
- b. Removal of single family dwelling c. Debris removal
- 1.2 Related work specified elsewhere
- A. All new work. 1.3 General requirements.
- A. Field conditions: take into consideration as necessary work all obvious existing conditions and installations on the site as though they were completely shown or described. Accept the site of the work as it exists and
- clear obstructions to the work indicated. B. All contractors submitting proposals for this work shall first examine the site and all conditions and limitations thereon and thereabouts. All proposals shall take into account all such conditions and limitations whether or not the same are specifically shown or mentioned in any of these documents and every proposal shall be construed as in every part as shown, described or reasonably required
- or implied and attain the completed conditions contemplated by the contractor. C. Codes: Perform all work in accordance with the building code of the governing bid having jurisdiction the governing state industrial safety orders and the requirements of the
- Occupational Safety and Health Act. D. Unforeseen conditions: include in the base bid miscellaneous cutting and patching necessitated as a result of
- unforeseen conditions. E. Noise control: Carry on all work in a manner which will produce the least amount of noise. Instruct all workmen in
- noise control procedure. F. Dust control: Carry on all work in a manner which will produce the least amount of dust. Implement dust control procedures like spraying and ground watering.
- 2.0 Execution
- 2.1 Protection A. Glass: Provide such protection as may be required to prevent glass breakage at no additional cost, replace in
- kind all broken glass. B. Lowering Material: Provide hoists and chutes as required to lower removed material. Throwing dropping or permitting the free fall of material and debris from heights which would
- cause damage to work to remain, undo noise or nuisance or excessive dust is expressly prohibited. C. Protection of personnel: Erect signs, barricades and such other forms of warning as may be requested to prevent
- personnel from putting themselves in the way of injury. D. Existing work to remain: Provide such forms of protection as may be necessary to prevent damage to existing work and equipment to remain.
- 2.2. General Demolition:
- A. Remove as described in 1.1
- 2.3 Mechanical, electrical and plumbing
- A. Carefully preview plans and determine lines to be removed and those to be kept active or to be reactivated. Protect lines to remain.
- Provide for minimum service interruption of lines to remain. B. Remove lines completely wherever possible. Cut and cap or plug in positive manner.
- 2.4 Removed Material and Debris.
- A. All removed material, not otherwise designated, and all debris becomes the property of the contractor who shall remove it from the site.
- B. Do not allow materials and debris generated by demolition activities to accumulate, remove daily and dispose of in a legal manner.

DESIGN | CONSULTING

P.O. BOX 3535 HALF MOON BAY, CA 94019 650 . 560 . 8100

www.hawkdesignandconsulting.com

■ PROJECT:

MOLTON GARAGE ADDITION AND ROOF CONVERSION

■ OWNER: SCOTT AND KELLEY MOLTON

■ PROJECT ADDRESS: 239 SEVILLA AVE EL

GRANADA, CA 94018

**■** CONTACT INFORMATION PHONE: (650)862-1113 EMAIL: scott.molton@gmail.com

■ APPROVAL

OWNER/AGENT

**GENERAL CONTRACTOR** 

**SUBCONTRACTOR** 

REVISION/DESCRIPTION PLANNING SUBMITTALS

> PROJECT NOTES AND **SPECIFICATIONS**

SHEET TITLE:

CAD FILE:

SCALE:

DRAWN BY Author

1/2" = 1'-0"

ARCHITECTURAL

DETAILS AND NOTES FOR, BUT NOT LIMITED TO, CABINETS, PLUMBING, STRUCTURAL, AND **ELECTRICAL COMPONENTS.** DESIGNER IS NOT RESPONSIBLE FOR INCORRECT

PLEASE VERIFY ALL DIMENSIONS AND REVIEW

MEASUREMENTS. ANY AND ALL DIMENSIONAL DISPUTES SHALL BE BROUGHT TO THE DESIGNER'S AND/OR CONTRACTOR'S ATTENTION.

- Provide each bedroom, basement, and habitable attics with a minimum of one exterior window with a 44" maximum clear opening height, 5.7 sq. ft. minimum clear openable area (minimum 5.0 sq. ft. at grade floor openings), 24" minimum clear openable height and 20" minimum clear width, or an openable exterior exit door. (CRC R310.2.1 and CRC R310.2.2) Window wells, ladders, and steps shall comply with CRC R310.2.3. Bars, grilles, covers, ands screens shall be releasable or removable from the inside without the use of a key, tool, special knowledge, or force greater than 15lbs to operate the emergency escape and rescue openings. (CRC R310.4) Photovoltaic panels & modules shall not be below an emergency escape and rescue opening within 36". (R324.6.2.2)
- Each bathroom containing a bathtub, shower or tub/shower combination shall be mechanically ventilated with Energy Star approved equipment (minimum 50cfm) with an integral humidistat installed. (CRC R303.3.1)
- Provide attic cross ventilation: 1/150 of attic area or 1/300 with at least 40% but not more than 50% of vents are a maximum 3 ft. below the ridge or highest space in the attic and the balance is provided in the lower third of the attic space (not limited to eaves or cornice vents). As an alternative in Climate Zone 16 (Truckee region), the net area may be reduced to 1/300 when a Class I or II vapor barrier is installed on the warm-in-winter side of the ceiling. Baffles are required at vents for insulation. Provide minimum of 1" inch of air space between insulation and roof sheathing. (CRC R806)
- Enclosed rafter spaces shall have a 1-inch clear cross ventilation. (Properly sized rafters for insulation) (CRC R806.3)
- Under floor cross ventilation: minimum 1.0 sq. ft. for each 150 sq. ft. of under floor area. When a class 1 vapor retarder is installed on the ground surface the minimum area of ventilation may be limited to 1sa.ft for each 1,500 square feet of under-floor space. One ventilation opening shall be within three (3) feet of each corner of the building (CRC R408.1). Unvented crawl spaces shall comply with CRC R408.3. Unvented crawl space added option for dehumidification of 70 pints moisture per day per 1,000 sf to requirement for exemption. (R408.3)
- Exterior balconies and elevated walking surfaces exposed to water, where structural framing is protected by an impervious moisture barrier require construction documents with manufacturer's installation instructions (R106.1.5). Must be inspected and approved before concealing barrier. (R109.1.5.3)
- Enclosed framing in exterior balconies and elevated walking surfaces exposed to rain, snow or drainage from irrigation shall be provided with cross-
- ft deep x width of door. Landings at required egress doors may step down a maximum of 7.75 inches when the door does not swing over the landing and 1.5 inches when door swings onto the landing. Other than required exterior exit doors may have a threshold of 7.75 inches maximum; a landing is not required if a stair with two or fewer risers is located on the exterior side and the door does not swing over the stairway. (CRC R311.3-R311.3.2)
- are installed then the area can be ½ of the story. (R325.3)
- 10. The following windows shall be fully tempered: (CRC R308.4)
- Sliding/swinging glass doors
- Glazing in walls and enclosures facing hot tubs, spas, whirlpools, saunas, steam rooms, bathtubs, showers and swimming pools where the glazing is less than 60 inches above the standing surface within the compartment and within 60 inches horizontally of the water's edge (CRC R308.4.5)
- Glazing within a 24" arc of a door that is less than 60 inches above the floor. Safety glazing required on a wall less than 180 degrees from the plane of the door in a closed position and within 24" of hinge side of an in-swing door. (R308.4.2)
- Glazing where the exposed area is greater than 9sq.ft, bottom is less than 18 in. and
- Glazing in guards and railings
- Glazing adjacent to stairways, landings, and ramps within 36in. horizontally of the walking surface less than 36in. above the walking surface
- vious surfaces shall also be sloped a minimum of 2 percent for 10ft away from structures to an approved drainage way. (CRC R401.3)
- Footings shall extend at least 12 inches into the undisturbed ground surface. (CRC R403.1.4) Unless erected on solid rock, to protect against frost and freezing, the minimum foundation depth is 18 inches below grade if between 4,000-7,000 foot elevation and 24 inches below grade for 7,000 foot elevation and above. Exception: Interior ootings shall be a minimum of 12 inches below grade. (L-V 3.14)
- Concrete slabs: 3 1/2" minimum (CRC R506.1). Slabs under living areas and garages shall be reinforced with wire 6" x 6", 10 gauge x 10 gauge welded mesh or equivalent steel reinforcement and 4" thickness of 3/8 minimum gravel under the concrete slab. Separate from soil with a 6 mil polyethylene vapor retarder with joints lapped not less than 6 inches in living areas. A capillary break shall be installed when a vapor retard-
- Provide an 18" x 24" under-floor access, unobstructed by pipes or ducts and within 5 of each under-floor plumbing cleanout and not located under a door to the residence,
- one-story. (CRC R403.1.6) Use anchor bolts at 4 ft. o.c. maximum for three story construction. Embed bolts 7" minimum. The anchor bolts shall be placed in the middle third of the width of the plate. Locate end bolts not less than 7 bolt diameters, nor more than 12" from ends of sill members. In SDC D0 and above: Provide 3"X3"X0.229 plate washers on each bolt at braced or shear wall locations, standard cut washers shall be permitted for anchor bolts not located in braced/shear wall lines. (CRC R403.1.6.1 & R602.11.1)
- Weather exposed glu-lam, beams and posts shall be pressure treated or shall be wood of natural resistance to decay (CRC R317.1.3 & 5)
- Columns exposed to the weather or in basements when supported on concrete pier or metal pedestals shall be pressure treated or natural resistance to decay unless the pier/pedestals project 1" above concrete or 6" above earth and the earth is covered by an approved impervious moisture barrier. (CRC R317.1.4 exc. 1)
- Columns in enclosed crawl spaces or unexcavated areas located within the periphery of the building shall be pressure treated or natural resistance to decay unless the column is supported by a concrete pier or metal pedestal of a height 8" or more and the earth is covered by an impervious moisture barrier. (CRC R317.1.4 exc. 2)
- Deck posts supported by concrete piers or metal pedestals projecting not less than 1' above a concrete floor or 6" above exposed earth. (CRC R317.1.4 exc. 3)
- Under-floor areas with storage, fuel-fired equipment or electric-powered equipment with less than 2x10 solid joists shall be protected on the underside by half-inch sheetrock or a sprinkler system. (R302.13
- Balconies must be designed for a minimum live load of 60lbs per square foot. (CRC T-

- (CRC R502.9 & CBC 2304.10.7)
- corrosion resistant type. (CRC R317.3)
- Fire-block in concealed spaces of stud walls/partitions, vertically at ceiling/floor levels, & horizontally at 10ft. intervals. Fire-block at soffits, drop ceilings/similar locations & in concealed spaces at the top/bottom of stair stringers. (CRC R302.11)
- Provide approved building paper under the building siding and approved flashing at exterior openings. (CRC R703.2) Specify a minimum of 2 layers of Grade D paper un-
- Stucco shall have a minimum clearance to earth of 4 inches and 2 inches to paved surfaces with an approved weep screed. (CRC R703.7.2.1) Masonry stone veneer shall be flashed beneath the first course of masonry and provided with weep holes immediately above the flashing. (CRC R703.8.5 and R703.8.6)

- Roof sheathing can only cantilever 9 inches beyond a gable end wall unless
- be 30"x30" to remove the largest piece of mechanical equipment per the California Mechanical Code.
- debris protection also installed.

- Roof construction and coverings shall comply with CRC Chapters 8, 9 and local ordinance. All roofing shall be tested/listed Class A minimum
  - Asphalt shingles with sloped roofs 2/12 to <4/12 shall have two layers of underlay-

- Garage shall be separated from the dwelling unit & attic area by ½ inch gypsum board applied to the garage side. Garage beneath habitable rooms shall be separated by not less than 5/8" type X gypsum board. Structure supporting floor/ceiling assemblies used for required separations shall have 1/2" gypsum board installed minimum. Door openings from the garage to the dwelling shall be solid wood/steel doors or honeycomb steel doors not less than 1 3/8" thick or a 20-minute rated fire door. Doors shall be self-closing & self-latching. No openings directly into a sleeping room from the garage. When the dwelling and garage has fire sprinklers installed per R309.6 and R313, doors into the dwelling unit from the garage only need to be self-
- Ducts penetrating the garage to dwelling separation shall be a minimum of 26 gauge
- Penetrations through the garage to dwelling separation wall (other than ducts as listed above) shall be fire-blocked per CRC section R302.11, item #4.
- Garage and carport floor surfaces shall be non-combustible material and slope to drain towards the garage door opening. (CRC R309.1)
- be located 18" above floor unless it is listed as flammable vapor ignition resistant. (CMC 305.1) Provide protective post or other impact barrier from vehicles. (CMC
- Appliances in private garages and carports shall be installed with a minimum clearance of 6ft above the floor unless they are protected from vehicular impact. (CBC 406.2.9.3)

#### Stair landings required every 12'7" of vertical rise. (CRC R311.7.3)

- permitted, provided the opening between the treads does not permit the passage of a 4" sphere. (Openings are not limited when the stair has a rise of 30" or less). (CRC
- Stairways with 4 or more risers shall have a handrail on one side 34" to 38" above the tread nosing. Circular handrails shall have an outside diameter of 1.25"-2"; if not circular, it shall have a perimeter dimension of 4"-6.25" with a maximum cross-sectional dimension of 2.25". See R311.7.8.3 item# 2 for type II handrails with a parameter over 6.25". A minimum clearance of 1.5" shall be maintained from the wall or other surface. Handrails shall be returned, terminate in newel posts, or safe-
- clear (guards on the open sides of stairs may have 4 3/8" openings). (CRC R312)
- Provide landings at the top/bottom of the stairway the width of the stairway. The depth of the landing shall be 36" minimum. (see CRC R311.7.6 for exceptions).
- minimum of 1/2" gypsum board. (CRC R302.7)
- technically infeasible to comply because of site constraints, ramps shall have a slope of not more than 1 unit vertical in 8 units horizontal (12.5-percent slope) (CRC) R311.8.1). Provide 3'X3' landings at the top and bottom of ramps, where doors open onto ramps, and where ramps change directions. (CRC R311.8.2)

#### Guards are required if deck or floor is over 30" above grade, minimum 42" high, with openings less than 4" (CRC R312). Guardrails shall be designed and detailed for lat-

- Provide deck lateral load connections at each end of the deck and at deck intersections per CRC R507.9.2. Specify connectors with a minimum allowable stress design capacity of 1,500lbs and install with 24" of the end of the deck. 750lb rated devices are allowed (DTT1Z as example) if located at 4 points along the deck.
- Posts/columns shall be retrained at the bottom end to prevent lateral displacement: clearly show approved post bases, straps, etc to achieve this per CRC R407.3
- Joists, girders, structural blocking and support posts shall be wood of natural resistance to decay or pressure-treated lumber when exposed to the
- No electrical panels in closets of bathrooms. Maintain a clearance of 36" inches in front of panels, 30" wide or width of equipment and 6'-6" high for headroom. (CEC
- service. (CEC 250.94)
- have a battery backup function that is designed to operate when activated because of an electrical outage. (CBC 406.2.1)
- A concrete-encased electrode (ufer) consisting of 20' of rebar or #4 copper wire placed in the bottom of a footing is required for all new construction. (CEC 250.52(A) 3)) Bond all metal gas and water pipes to ground. All ground clamps shall be accessible and of an approved type. (CEC 250.104)
- All branch circuits supplying 15/20 ampere outlets in family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, kitchens, laundry room or similar rooms/areas shall be protected by a listed l combination type arc-fault circuit interrupter. (CEC 210.12)
- Provide at least 1 outlet in basements, garages, laundry rooms, decks, balconies, porches and within 3' of the outside of each bathroom basin. (CEC 210.52 (D), (F) &
- Furnaces installed in attics and crawl spaces shall have an access platform (catwalk in attics), light switch and receptacle in the space. Provide a service receptacle for
- 1. Garage receptacles shall not serve outlets outside the garage. Exception: Garage circuit may serve readily accessible outdoor receptacle outlets. ((CEC 210.11 (C)(4)) A minimum of 1 receptacle shall be provided for each car space. (210.52(G)
- minimum of two 20A circuits. Kitchen, pantry, breakfast nooks, dining rooms, work **surfaces** and similar areas counter outlets must be installed in every counter space 12" inches or wider, not greater than 4' o.c., within 24" inches of the end of any counter space and not higher than 20" above counter. (CEC 210.52 (C)) Island counter spaces shall have at least 1 receptacle outlet unless a range top or sink is installed than 2 receptacles may be required. 1 receptacle is required for peninsular counter spaces. Receptacles shall be located behind kitchen sinks if the counter area depth behind the sink is more than 12" for straight counters and 18" for corner installations. (CEC Figure 210.52(C)(1))
- 1. Receptacles shall be installed at 12' o.c. maximum in walls starting at 6' maximum from the wall end. Walls longer than two feet shall have a receptacle. Hallway walls
- (CEC 406.9(C) Light pendants, ceiling fans, lighting tracks, etc shall not be located within 3ft horizontally and 8ft vertically above a shower and/or bathtub threshold. (CEC 410.10(D))
- 16. All lighting/fan fixtures located in wet or damp locations shall be rated for the application. (CEC 410.10)
- 7. GFCI outlets are required: for all kitchen receptacles that are designed to serve countertop surfaces, dishwashers, bathrooms, in under-floor spaces or below grade level, in unfinished basements, crawl space lighting outlets, in exterior outlets, within 6' of a laundry/utility/wet bar sinks, laundry areas, and in all garage outlets including out-
- 3. Carbon-monoxide alarms shall be installed in dwelling units with fuel-burning appliances or with attached garages (CRC R315):

#### Outside of each separate sleeping area in the immediate vicinity of bedrooms

On every level of a dwelling unit including basements

In each story, including basements.

- Alterations, repairs, or additions exceeding 1,000 dollars (May be battery operated)
- 19. Smoke alarms shall be installed (CRC (R314):
- In each room used for sleeping purposes.
- Outside of each separate sleeping area in the immediate vicinity of bedrooms.
- 20. At the top of stairways between habitable floors where an intervening door or obstruction prevents smoke from reaching the smoke detector.
- 1. Shall not be installed within 20ft horizontally of cooking appliances and no closer than 3ft to mechanical registers, ceiling fans and bathroom doors with a bathtub or
- shower unless this would prevent placement of a smoke detector (314.3(4)). 22. Alterations, repairs, or additions exceeding 1,000 dollars. (May be battery operat-
- 23. All smoke and carbon-monoxide alarms shall be hardwired with a battery backup (smoke alarms shall have a 10-year sealed battery). (CRC R314.4 & R315.1.2)
- 24. Smoke detectors within 10 feet to 20 feet of the stove shall be ionization type with alarm silencing switch. CRC R314.3.3.
- 5. All 15/20 ampere receptacles in wet locations shall have in-use (bubble) covers installed. All receptacles in wet locations shall also be listed weather-resistant type. (CEC 406.9(B)(1))

#### <u>PLUMBING</u>

- Underfloor cleanouts shall not be more than 5' from an underfloor access, access door or trap door. (CPC 707.9)
- ABS piping shall not be exposed to direct sunlight unless protected by water based synthetic latex paints. (CPC 312.13)
- PVC piping shall not be exposed to direct sunlight unless protected by water based synthetic latex paint, .04" thick wrap or otherwise protected from UV degradation.
- Underground water supply lines shall have a **14 awg** blue tracer wire. (CPC)
- The adjacent space next to showers without thresholds shall be considered a "wet| location" when using the CRC, CBC, and the CEC. (CPC 408.5)
- Shower compartments, regardless of shape, shall have a minimum finished interior of 1024 square inches (32" by 32") and shall also be capable of encompassing a 30" circle. The required area and dimensions shall be measured at a height equal to the top of the threshold and shall be maintained to a point of not less than 70" above the shower drain outlet. (CPC 408.6) Provide curtain rod or door a minimum of 22" in width. (CPC 408.5) Showers and tubs with showers require a nonabsorbent surface up to 6' above the floor. (CRC R307.2) Minimum shower receptor slope is 1/8" per foot. (408.5)
- Show location and size of the water heater on plans. Provide pressure relief valve with drain to outside for water heater. (CPC 504.6) Provide seismic strapping in the upper & lower third of the water heater a minimum of 4" above controls. (CPC) 507.2) The water heater shall be of an instantaneous type or the following shall be provided (new construction only) (CEC 150(n)):
- A 120V receptacles provided within 3ft
- A category III or IV vent, or a straight (without bends) Type B vent
- Condensate drain that is no more than 2 inches higher than the base of the water
- Gas supply line with a minimum 200,000 Btu/hr dedicated capacity for the water
- A dedicated 120/240, 3 wire circuit with 10AWG wire to a receptacle outlet within 3' of the water heater. The unused conductor shall be electrically isolated and have a reserved circuit breaker space. Both ends of the conductor shall be labeled "spare" and be electrically isolated. A reserve single-pole circuit breaker space near this circuit labeled "Future 240V Use." (CEC 150.0(n))
- Domestic hot water lines shall be insulated. Insulation shall be the thickness of the pipe diameter up to 2" in size and minimum 2" thickness for pipes larger than 2" in
- A 3-inch gravity drain shall be provided at the low point of the space, installed which provides 1/4-inch per foot grade and terminate at an exterior point of the building protected from blockage. The opening shall be screened with a corrosionresistant wire mesh with mesh openings of 1/4-inch in dimension. Lengths of the gravity drains over 10 feet in length shall be first approved by the Building Official.
- 0. Water heaters located in attics, ceiling assemblies and raised floor assemblies shall show a water-tight corrosion resistant minimum 1 ½" deep pan under the water heater with a minimum ¾ inch drain to the exterior of the building. (CPC 507.5)
- . Water closet shall be located in a space not less than 30" in width (15" on each side) and 24" minimum clearance in front. (CPC 402.5) 2. Indicate on the plans that the maximum hot water temperature discharging from a
- bathtub or whirlpool bathtub filler shall not exceed 120 degrees F. (CPC 408.3) 13. Provide anti-siphon valves on all hose bibs. (CPC 603.5.7)
- 4. Floor drains shall be provided with a trap primer. (CPC 1007)
- 15. Clearly label on the plans the maximum water flow rates per the (CGBSC 4.303.1): Water Closets: 1.28gpf
- Urinals: .125gpf
- Kitchen Faucets: 1.8gpm @ 60psi
- Lavatory Faucets: 1.2gpm @ 60psi Showerheads: 1.8gpm

### **MECHANICAL**

- All newly installed gas fireplaces shall be direct vent and sealed-combustion type.
- (CMC 912.2) Any installed wood stove or pellet stove shall meet the U.S. EPA New Source Performance Standard emission limits and shall have a permanent label certifying
- Top chimney must extend a minimum of 2 ft. above any part of the building within 10 ft. (CMC 802.5.4)
- Fireplaces shall have closable metal or glass doors, have combustion air intake drawn from the outside and have a readily accessible flue dampener control. Continuous burning pilot lights are prohibited. (CEC 150.0(e))
- Provide combustion air for all gas fired appliances per CMC Chapter 7 Gas vents passing through an insulated assembly shall have a metal insulation
- shield a minimum 2" above insulation. (CMC 509.6.2.7) Gas water heater and furnace are not allowed in areas opening into bathrooms, closets or bedrooms <u>unless</u> installed in a closet equipped with a listed gasketed door assembly and a listed self-closing device with all combustion air obtained from the outdoors. (CPC 504)
- Roof top equipment on roofs with over 4/12 slope shall have a level 30"x30" working platform. (CMC 304.2) Exhaust openings terminating to the outdoors shall be covered with a corrosion
- resistant screen 1/4"-1/2" in opening size (not required for clothes dryers). (CMC . Vent dryer to outside of building (not to under-floor area). Vent length shall be 14 ft. maximum. Shall terminate a minimum of 3' from the property line and any
- opening into the building. (CMC 504.4.2) .. Environmental Air Ducts shall not terminate less than 3' to a property line, 10' to a forced air inlet, 3' to openings into the building and shall not discharge on to a public way. (CMC 502.2.1)
- 2. Provide minimum 100 square inches make-up air for clothes dryers installed in closets. (CMC 504.4.1(1))
- 3. Heating system is required to maintain 68 degrees at 3 ft. above floor level and 2ft from exterior walls in all habitable rooms. (CRC R303.10) 4. Wood burning appliances shall not be installed in a new or existing project that is
- A pellet-fueled wood burning heater.

not one of the following:

- A U.S. EPA Phase II Certified wood burning heater. An appliance or fireplace determined to meet the U.S. EPA particulate matter emis-
- sion standard of less than 7.5 grams per hour for a non-catalytic wood fired appliance or 4.1 grams per hour for a catalytic wood fired appliance and is approved in TITLE 24 ENERGY

### All ducts in conditioned spaces must include R-4.2 insulation. (150.1(c)9) Mini-

- mum heating and cooling filter ratings shall be MRV 13 (150.0(m)12)
- Isolation water valves required for instantaneous water heaters 6.8kBTU/hr and above. Valves shall be installed on both cold and hot water lines. Each valve will need a hose bib or other fitting allowing for flushing the water heater when the valves are closed. (CEC 110.3(c)6)
- ALL luminaires must be high efficacy (150.0(k)1A)
- Luminaries recessed in insulated ceilings must meet five requirements (150.0(k)
- They must be rated for direct insulation contact (IC).
- They must be certified as airtight (AT) construction.
- They must have a sealed gasket or caulking between the housing and ceiling to prevent flow of heated or cooled air out of living areas and into the ceiling cavity.
- They may not contain a screw base sockets They shall contain a JA8 compliant light source
- In bathrooms, garages, laundry rooms, and utility rooms, at least on luminaire in each of these spaces shall be controlled by a vacancy sensor **or occupant sensor** provided the occupant sensor is initially programmed like a vacancy sensor (manual-on operation). (150.0(k)2I)
- Joint Appendix A (JA8) certified lamps shall be considered high efficacy. JA8 compliant light sources shall be controlled by a vacancy sensor or dimmer. (Exception:
- <70sf closets and hallway) (150.0(k)2K) Under-cabinet lighting shall be switched separately from other lighting systems.
- (150.0(k)2L)All exterior lighting shall be high efficacy, be controlled by a manual on/off switch and have one of the following controls (the manual switch shall not override the automatic control device): (150.0(k)3A)
- Photo-control and motion sensor
- Photo-control and automatic time switch control
- Astronomical time clock control turning lights off during the day All high efficacy light fixtures shall be certified as "high-efficacy" light fixtures by
- the California Energy Commission.
- 10. Contractor shall provide the homeowner with a luminaire schedule giving the lamps used in the luminaires installed. (10-103(b))
- . The number of blank electrical boxes more than 5 feet above the finished floor shall not be greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor, or fan speed control. (150(k)1B) L2. Provide a gasket/ insulation on all interior attic/under-floor accesses. (110.7)
- 13. Provide verification on the plans how the building will meet the minimum ventilation and acceptable indoor air quality requirements per ASHRAE Standard 62.2. Window operation is not a permissible method of providing the whole building ventilation airflow required. This is subject to HERS testing. The following label must be attached to the fan switch: "To maintain minimum levels of outside air ventilation | required for good health, the fan control should be on at all times when the building is occupied, unless there is severe outdoor air contamination." (California Energy Code 150.0(0)) A minimum 100 CFM indoor air quality fan is required in the kitchen and shall be HERS verified.

#### **WILDLAND URBAN INTERFACE (WUI)**

- Exterior wall coverings shall be noncombustible, ignition resistant, heavy timber, log wall or fire resistive construction. (CRC R337.7)
- Exterior wall coverings shall extend from the foundation to the roof and terminate at 2 inch nominal solid blocking between rafters and overhangs. (CRC R337.7.3.2) Open/enclosed roof eaves and soffits, exterior porch ceilings, floor projections, under-floor areas and undersides of appendages to comply with ignition resistant con-
- struction requirements. (CRC R337.5-9) Spaces created between roof coverings and roof decking shall be fire stopped by approved materials or have one layer of minimum 72lb mineral surfaced nonperforated cap sheet complying with ASTM D 3909. (CRC R337.5.2)
- Indicate on the plans where valley flashing is installed, the flashing shall be not less than 26awg and installed over not less than one layer of minimum 72lb mineral surfaced non-perforated cap sheet complying with ASTM D 3909 and at least 36 inches wide running the full length. (CRC R337.5.3) Attic gable and eaves above 12ft and under-floor ventilation shall be provided with fully covered metal wire mesh, vents, or other materials that have a minimum 1/16
- inch and maximum 1/8 inch openings, non-combustible and corrosion resistant. All other eave vents shall be listed/approved to resist the intrusion of flame and burning embers. (CRC R337.6) Indicate on plans exterior glazing shall have a minimum of one-tempered pane,

glass block, have a fire resistive rating of 20 minutes or be tested to meet perfor-

Exterior doors including garage doors shall be noncombustible, ignition resistant

- mance requirements of SFM Standard 12-7A-2. (CRC R337.8.2) 8. Operable skylights shall be protected by a noncombustible mesh screen 1/8" max openings (R337.8.2.2
- material, minimum 1 3/8 inch solid core, minimum 20 minute fire resistive rating or shall be tested to meet the performance requirements of SFM Standard 12-7Ā-1. 10. Garage door perimeter gap maximum 1/8". Metal flashing, jamb and
- header overlap, and weather-stripping meeting section requirements are 1. The walking surface material of decks, porches, balconies and stairs within 10ft of

#### grade level shall be ignition resistant material, exterior fire-retardant treated wood or noncombustible material. (CRC R337.9)

- **GREEN BUILDING** Proiects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage | storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion
- and retain soil runoff on the site (CGBSC 4.106.2): Retention basins of sufficient size shall be utilized to retain storm water on site
- Where storm water is conveyed to a public drainage system, collection point, gutter, or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency. All new residential construction with attached private garages shall have the follow-
- ing for electric vehicle (EV) charging stations (CGBSC 4.106.4): Install a minimum 1-inch conduit capable of supplying a 208/240V branch circuit to a suitable box location for EV charging. The other end shall terminate to the main
- The main panel and/or subpanel shall be of sufficient size to install a 40-ampere dedicated branch circuit. The dedicated overcurrent protection space shall be labeled "EV CAPABLE" Multiple shower heads serving a single shower shall have a combined flow rate of
- 1.8 gpm or the shower shall be designed to allow only one shower outlet to be in operation at a time. (CGBSC 4.303.1.3.2) Residential projects with an aggregate landscape area equal to or greater than 500 | square feet shall comply with either a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. Automatic irrigation system controllers installed at time of final inspection shall have weather or soil based

controllers and/or weather based controllers with rain sensors. Soil moisture based I

(Clearly note on the plans) At time of final inspection, a building operation and

- controllers are not required to have rain sensor input. (CGBSC 4.304) Recycle and/or reuse a minimum of **65 percent** of nonhazardous construction and demolition waste. (CGBSC 4.408.2)
- maintenance manual, compact disc, etc shall be provided containing the following:

Directions that manual shall remain onsite for the life of the building

Information from local utility, water and waste recovery providers

- Operation and maintenance instructions for equipment, appliances, roof/yard drainage, irrigation systems, etc.
- Public transportation and carpool options Material regarding importance of keeping humidity levels between 30-60 percent

Information regarding routine maintenance procedures

service and/or subpanel

State solar energy incentive program information

A copy of any required special inspection verifications that were required (if any)

The project shall meet minimum pollutant control requirements for adhesives, seal-

ants, caulks, paints, carpet, resilient flooring systems, etc. (CGBSC 4.504) 10. Duct openings related to HVAC systems shall be covered with tape, plastic, sheet metal or other methods to reduce the amount of water, dust and debris which may enter the system. (CGBSC 4.504.1)

#### **ATTIC VENTILATION:**

ATTIC AREA SECOND FLOOR (AA): --- SQFT VENTILATION REQUIRED: AA / 150 --- SQFT NUMBER OF 0.3 SQFT ROOF VENTS: --- FOR --- SQFT NUMBER OF 0.37 SQFT SOFFIT VENTS: --- FOR --- SQFT

TOTAL VENTILATION: --- SQFT

NOTE: VENTS SHOWN ON PLANS FOR ILLUSTRATION PURPOSE ONLY. LOCATION AND INSTALLATION TO BE CONFIRMED BY GENERAL CONTRACTOR.

This attic vent provides maximum airflow — 72 square inches of Net Free Ventilation Area (NFVA)\* — without detracting from the aesthetics of the roof design. O'Hagin Standard Line of attic vents is available for contractor painting in 26 gauge G90 mill finish galvanized steel, 0.032 aluminum, 16 oz. copper, as well as a variety of pre- painted finishes.



#### **PLUMBING NOTES:**

adjacent to

AND MAINTENANCE ZONES.

- 1: Where a water heater is installed in an attic, attic-ceiling, floorceiling assembly, or floor-subfloor assembly where damage results from a leaking water heater, a watertight pan of corrosion resistant materials shall be installed beneath the water heater with not less than ¾ of an inch diameter drain to an approved location. [CPC
- 2: Systems using gas or propane water heaters for individual dwelling units shall include the following requirements of CEnC 150.0(n)1:
- A. A dedicated 120V, 20-amp electrical receptacle, connected to the electrical panel with a 120/240-volt 3 conductor, 10 AWG copper branch circuit, that is within 3 feet from the water heater and accessible to the water heater with no obstructions; and
- spare and be electrically isolated: and ii: A reserved single pole circuit breaker space in the electrical panel

i: Both ends of the unused conductor shall be labeled with the word

- the branch circuit in A above and labeled with the words "Future" 240V use"; and B. A Category III or IV vent, or a Type B vent with straight pipe between the outside termination and the space where the water
- heater is installed: and C. A condensate drain that is no more than 2 inches higher than the base of the installed water heater, and allows natural draining without

#### pump assistance: and D. Gas supply line with a capacity of at least 200,000 Btu/hr.

**ENCROACHMENT PERMIT NOTE:** NO CONSTRUCTION ACTIVITY SHALL OCCUR, AND NO PEDESTRIAN AND VEHICULAR TRAFFIC CONTROL SHALL BE INSTALLED WITHIN THE CITY RIGHT-OF-WAY OR AFFECTING THE CITY'S IMPROVEMENTS PRIOR TO OBTAINING AN ENCROACHMENT PERMIT FROM THE CITY. ALL IMPROVEMENTS CONSTRUCTED WITHIN THE CITY RIGHT-OF-WAY SHALL CONFORM TO CITY

STANDARDS TO THE SATISFACTION OF THE CITY ENGINEER. TRAFFIC CONTROL SHALL

CONFORM TO CALTRANS/MUTCD STANDARD PLANS FOR TRAFFIC CONTROL IN CONSTRUCTION

### CONSTRUCTION WORK SHALL BE LIMITED TO THE HOURS OF 7:00 A.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY; 8:00 A.M. TO 6:00 P.M. SATURDAYS; AND 10:00 A.M. TO 6:00 P.M. SUNDAYS

AND HOLIDAYS. EXCEPT AS EXPRESSLY AUTHORIZED BY THE CITY ENGINEER IN

### CONFORMANCE WITH SECTION 14.40.020 OF THE HALF MOON BAY MUNICIPAL CODE THE PERMITTEE SHALL PROVIDE WRITTEN NOTICE TO AFFECTED PROPERTY AND BUSINESS OWNERS AND A COPY OF SUCH NOTICE TO THE CITY ENGINEER A MINIMUM OF TWO

#### TRAFFIC, PARKING, OR PUBLIC SERVICE FACILITIES. **CONSTRUCTION MATERIAL STORAGE NOTE:** CONSTRUCTION MATERIAL SHALL NOT BE STORED IN THE STREET RIGHT-OF-WAY WITHOUT

BUSINESS DAYS PRIOR TO ANY PLANNED DISRUPTION OF PEDESTRIAN OR VEHICULAR

SIDEWALK MAINTENANCE AND LIABILITY NOTE: IT SHALL BE THE DUTY OF THE PROPERTY OWNER(S) WHOSE PROPERTY IS ADJACENT TO ANY PORTION OF A PUBLIC STREET OR PLACE TO MAINTAIN ANY SIDEWALKS ALONG THE PROJECT FRONTAGE IN A SAFE AND NON-DANGEROUS CONDITION. SIDEWALK MAINTENANCE SHALL INCLUDE REMOVAL AND REPLACEMENT OF CONCRETE TO ELIMINATE TRIPPING HAZARDS; AND PRUNING AND TRIMMING OF TREES, SHRUBS, GROUND COVER AND OTHER LANDSCAPING WITHIN THE PUBLIC RIGHT-OF-WAY. THE PROPERTY OWNER HAS THE PRIMARY AND EXCLUSIVE

DUTY TO FUND AND PERFORM SUCH MAINTENANCE AND REPAIR, WHETHER THE CITY HAS

NOTIFIED THE PROPERTY OWNER OF THE NEED FOR SUCH MAINTENANCE OR REPAIRS OR HAS

PERFORMED SIMILAR MAINTENANCE OR REPAIRS IN THE PAST, PURSUANT TO §12.18.020 AND §

ALL COPPER BUILDING ELEMENTS WILL BE PRE-PATINATED AT THE FACTORY, OR IF PATINATION

### **COPPER BUILDING ELEMENT NOTE:**

12.18.030 OF THE HALF MOON BAY MUNICIPAL CODE.

PRIOR APPROVAL FROM THE CITY ENGINEER.

WILL OCCUR ON THE SITE, THE PLANS SHALL IDENTIFY BEST MANAGEMENT PRACTICES IN CONFORMANCE WITH THE SAN MATEO COUNTYWIDE WATER POLLUTION PREVENTION PROGRAM REQUIREMENTS FOR ACHITECTURAL COPPER, TO THE SATISFACTION OF THE CITY ENGINEER.

DESIGN | CONSULTING

P.O. BOX 3535 HALF MOON BAY, CA 94019 650 . 560 . 8100

www.hawkdesignandconsulting.com

### ■ PROJECT:

MOLTON GARAGE ADDITION AND ROOF CONVERSION

### ■ OWNER:

SCOTT AND KELLEY MOLTON

# ■ PROJECT ADDRESS:

239 SEVILLA AVE EL

GRANADA, CA 94018 **■** CONTACT INFORMATION PHONE: (650)862-1113

EMAIL: scott.molton@gmail.com

# **■** APPROVAL

OWNER/AGENT

**GENERAL CONTRACTOR** 

**SUBCONTRACTOR** 

REVISION/DESCRIPTION PLANNING SUBMITTALS

SHEET TITLE: PROJECT NOTES AND **SPECIFICATIONS** 

DRAWN BY CAD FILE:

**ARCHITECTURAL** 

PLEASE VERIFY ALL DIMENSIONS AND REVIEW DETAILS AND NOTES FOR BUT NOT LIMITED TO CABINETS, PLUMBING, STRUCTURAL, AND

DESIGNER IS NOT RESPONSIBLE FOR INCORRECT MEASUREMENTS. ANY AND ALL DIMENSIONAL DISPUTES SHALL BE BROUGHT TO THE DESIGNER'S

# SCALE:

**ELECTRICAL COMPONENTS.** 

AND/OR CONTRACTOR'S ATTENTION.

Roof drains/gutters required to be installed per the California Plumbing Code with leaf/

- ventilation area of at least 1/150. (R317.1.6) Provide landings and a porch light at all exterior doors. Landings are to be minimum 3
- Mezzanines shall not be greater than 1/3 of the story unless fire sprinklers
- at least 36 in. above the floor, and adjacent to a walking surface Within 60in. of the bottom tread of a stairway and less than 36in. above the landing
- **FOUNDATIONS & CONCRETE SLABS** Slope drainage 6" within the first 10ft. from the foundation wall. If physical obstructions or lot lines prohibit the 10ft distance, a 2-5 percent slope shall be provided to an approved alternative method of diverting the water away from the foundation. Imper-
- Stepped footings shall be used when slope of footing bottom is greater than 1 in 10 (V: H). Step footing detail shall be shown on building elevations and foundation plan.
- is required. Provide a solid cover or screen. (CRC 408.4 & CPC 707.9) Minimum sill bolting: 1/2" anchor bolts or approved anchors at 6 ft. o.c. maximum for
- CLEARANCES AND TREATMENT FOR WOOD FRAMING

- Positive connection shall be provided to ensure against uplift and lateral displacement. All fasteners used for attachment of siding & into pressure treated lumber shall be of a
- der stucco and 2 layers of 15lb felt (or equivalent) under stone veneer.
- supported by overhang framing. (R802.5.2.1) Provide a minimum 22" x 30" access opening to attic (CRC R807); may be required to

- ment applied per CRC R905.2.2.

- **GARAGE AND CARPORT**
- closing and self-latching. (CRC R302.5.1 & T-R302.6)
- with no openings into the garage. (CRC R302.5.2)
- Appliances and receptacles installed in garage generating a glow, spark or flame shall

### **STAIRWAYS & RAMPS**

- Exterior stair stringers must be naturally resistant to decay or pressure treated. (CRC
- Rise shall be maximum 7.75"; Run shall be 10" minimum; headroom 6'-8" minimum; width 36" minimum, 31.5" between a handrail on one side and 27" with handrails on two sides. Variation between riser heights 3/8" maximum. A nosing not less than .75 inches but not more than 1.25 inches shall be provided on stairways with solid risers where the tread depth is less than 11 inches. The leading edge of treads shall project not more than 1.25 inches beyond the tread below. Open risers are
- Guards shall be 42" minimum height (unless acting as a handrail/guard for a stairway; the guard height may be 34"-38" in height), with openings less than 4" inches
- Usable spaces underneath enclosed/unenclosed stairways shall be protected by a Ramps serving the egress door shall have a slope of not more than 1 unit vertical in 12 units horizontal (8.3-percent slope). All other ramps shall have a maximum slope of 1 unit vertical in 8 units horizontal (12.5-percent slope). Exception: Where it is
- eral forces according to CRC Table 301.5.
- weather. (CRC R317.1.3) **ELECTRICAL**
- Provide a minimum 3 lug intersystem bonding busbar at the main electrical All automatic garage door openers that are installed in a residence shall
- All 15/20 ampere receptacles installed per CEC 210.52 shall be listed tamper-resistant receptacles. (CEC 406.12)
- Provide a minimum of one 20A circuit to be used for the laundry receptacle. (CEC 210.11(C)(2)) Provide a minimum of one 20A circuit for bathroom receptacle outlets.
- 0. All dwellings must have one exterior outlet at the front and the back of the dwelling. (CEC 210.52(E))
- .2. At least one wall switched lighting outlet or fixture shall be installed in every habitable room, bathroom, hallways, stairways, attached garages and detached garages with electrical power, equipment spaces (attics, basements, etc). (CEC 210.70) Kitchens, dining rooms, pantries, breakfast nooks, and similar areas must have a
- longer than 10 ft shall have a receptacle in hallways. (CEC 210.52(A)) 5. Receptacles shall not be installed within or directly over a bathtub or shower stall.
- lets dedicated to a single device or garage door opener. (CEC 210.8)

EXISTING

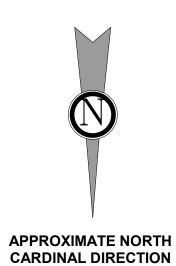
ELEMENT ABOVE — — —

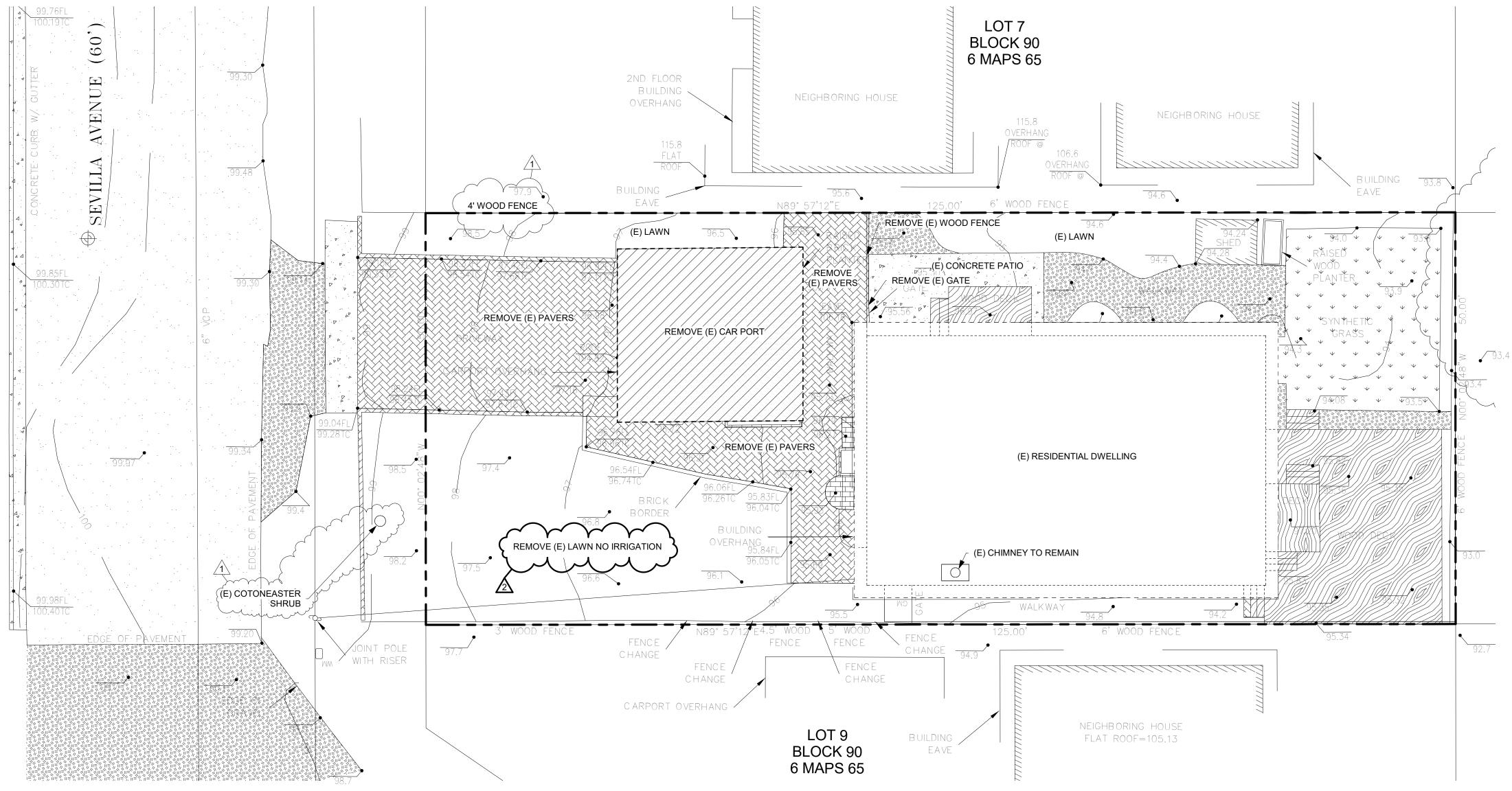
ELEMENT BELOW

NEW

DEMOLITION

AREA OF NO WORK





1 EXISTING / DEMOLITION SITE PLAN

**A4** SCALE: 1/8" = 1'-0"

HAWK

DESIGN | CONSULTING

P.O. BOX 3535 HALF MOON BAY, CA 94019 650 . 560 . 8100 www.hawkdesignandconsulting.com

■ PROJECT:

MOLTON GARAGE ADDITION AND ROOF CONVERSION

■ OWNER:

SCOTT AND KELLEY MOLTON

■ PROJECT ADDRESS:

239 SEVILLA AVE EL GRANADA, CA 94018

■ CONTACT INFORMATION
PHONE: (650)862-1113
EMAIL: scott.molton@gmail.com

■ APPROVAL

OWNER/AGENT

GENERAL CONTRACTOR

SUBCONTRACTOR

| NO. | REVISION/DESCRIPTION | DATE     |
|-----|----------------------|----------|
| 1   | PLANNING SUBMITTALS  | 03/21/22 |
| 2   | PLANNING REVISION 1  | 06/08/22 |
| (3  | PLANNING REVISION 2  | 08/16/22 |
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SHEET TITLE:

EXISTING /
DEMOLITION SITE
PLAN

DRAWN BY:

**A4** 

SCALE:

As indicated

PLEASE VERIFY ALL DIMENSIONS AND REVIEW DETAILS AND NOTES FOR, BUT NOT LIMITED TO, CABINETS, PLUMBING, STRUCTURAL, AND ELECTRICAL COMPONENTS.

GRAPHICAL LEGEND

EXISTING

ALL ROOF INSTALLATI

CALIFORNIA BUILDING

CHAPTER 15 SHALL CO

SHALL BE LISTED AS L

ROOFING ASSEMBLY (

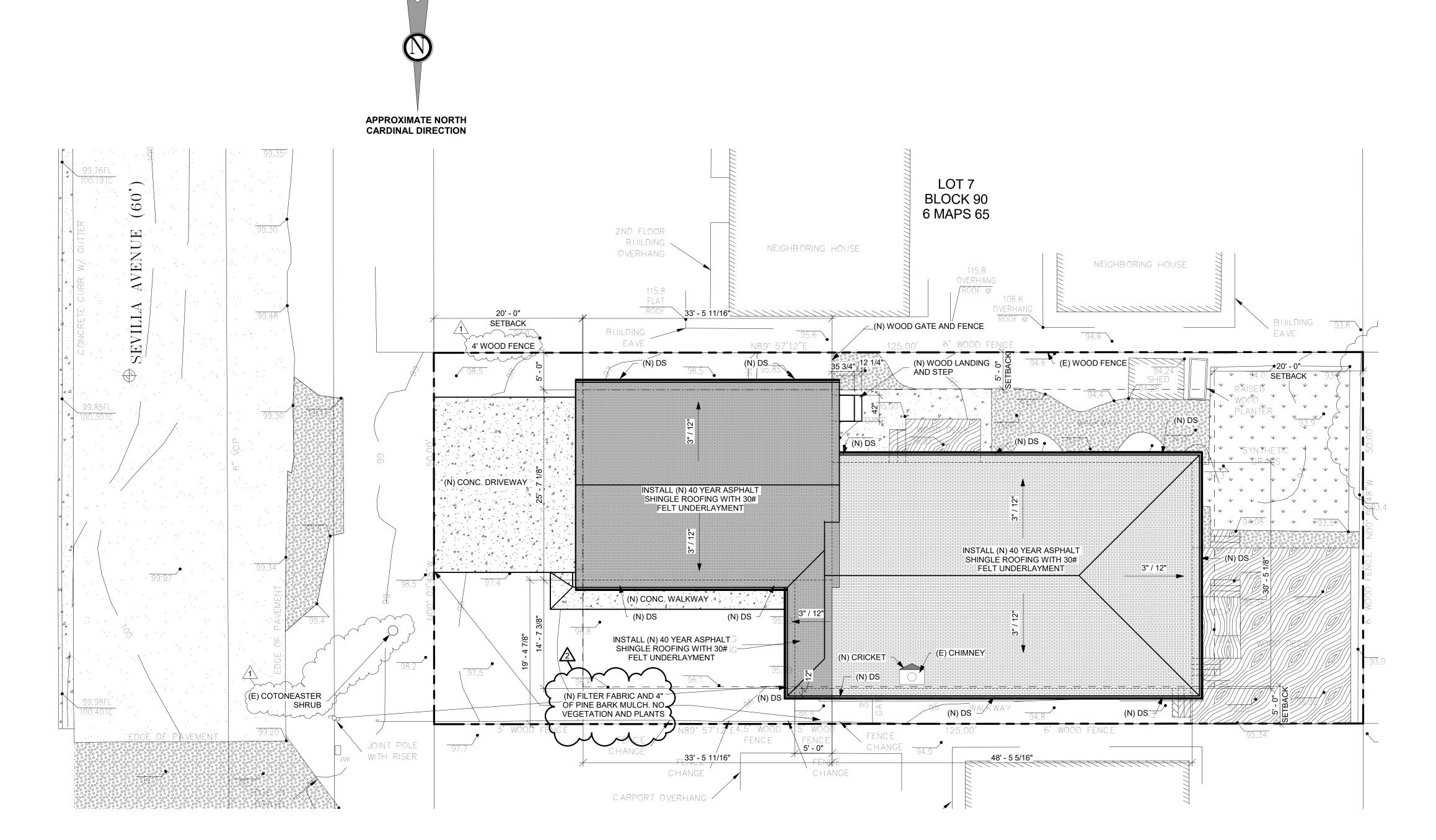
DEMOLITION

INSTALL (N) 40 YEAR A

AREA OF NO WORK

ALL ROOF INSTALLATIONS REGULATED BY THE CALIFORNIA BUILDING CODE CHAPTER 15 AND APPENDIX CHAPTER 15 SHALL COMPLY TO CBC 1505, BUT NO CASE SHALL BE LISTED AS LESS THAN A MINIMIM OF A CLASS B ROOFING ASSEMBLY (HMB14.04.110.G)

INSTALL (N) 40 YEAR ASPHALT SHINGLE ROOFING WITH 30# FELT UNDERLAYMENT ON ALL PITCHED ROOF SURFACES. COLOR TO BE LANDMARK® TL MOIRE BLACK (CLASS A FIRE-RESISTANCE RATING) PER CBC 1505



1 PROPOSED SITE PLAN

SCALE: 1/8" = 1'-

HAWK

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| NO. | REVISION/DESCRIPTION | DATE     |
|-----|----------------------|----------|
| 1   | PLANNING SUBMITTALS  | 03/21/22 |
| 2   | PLANNING REVISION 1  | 06/08/22 |
| 3   | PLANNING REVISION 2  | 08/16/22 |
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PROPOSED SITE PLAN

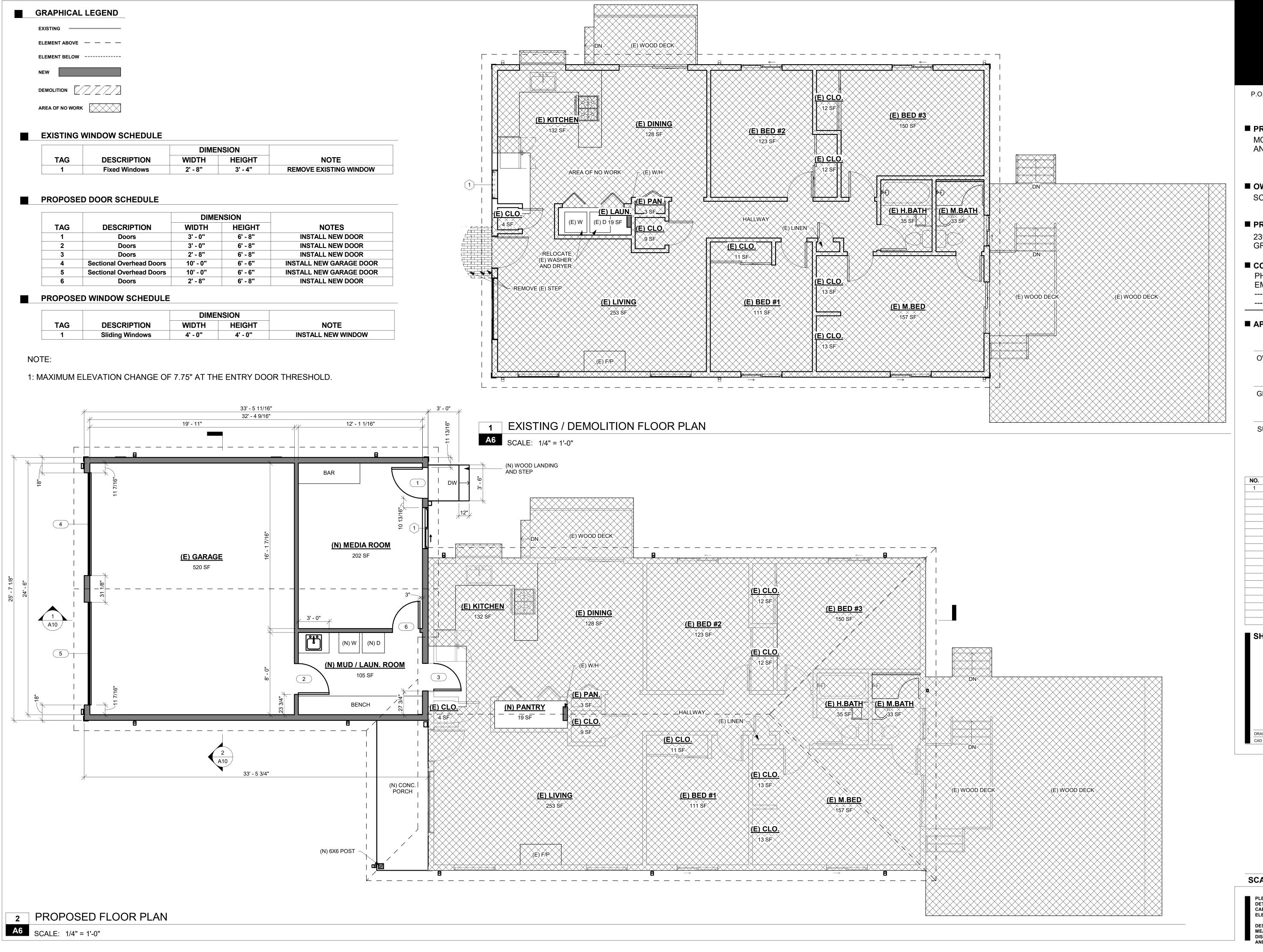
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SCALE:

As indicated

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■ CONTACT INFORMATION
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EMAIL: scott.molton@gmail.com

■ APPROVAL

OWNER/AGENT

GENERAL CONTRACTOR

SUBCONTRACTOR

NO. REVISION/DESCRIPTION

1 PLANNING SUBMITTALS

03/21/2

SHEET TITLE:

EXISTING /
DEMOLITION AND
PROPOSED FLOOR
PLAN

DRAWN BY:

**46** 

SCALE:

PLEASE VERIFY ALL DIMENSIONS AND I

DETAILS AND NOTES FOR, BUT NOT LIMITED TO, CABINETS, PLUMBING, STRUCTURAL, AND ELECTRICAL COMPONENTS.

DESIGNER IS NOT RESPONSIBLE FOR INCORRECT MEASUREMENTS. ANY AND ALL DIMENSIONAL DISPUTES SHALL BE BROUGHT TO THE DESIGNER'S AND/OR CONTRACTOR'S ATTENTION.

As indicated

GRAPHICAL LEGEND **ROOF NOTE:** NOTE: ALL ROOF INSTALLATIONS REGULATED BY THE 1: MAXIMUM ELEVATION CHANGE OF 7.75" AT THE ENTRY DOOR THRESHOLD. CALIFORNIA BUILDING CODE CHAPTER 15 AND APPENDIX **ELEMENT ABOVE** CHAPTER 15 SHALL COMPLY TO CBC 1505, BUT NO CASE SHALL BE LISTED AS LESS THAN A MINIMIM OF A CLASS B ELEMENT BELOW -----ROOFING ASSEMBLY (HMB14.04.110.G) INSTALL (N) 40 YEAR ASPHALT SHINGLE ROOFING WITH DEMOLITION 30# FELT UNDERLAYMENT ON ALL PITCHED ROOF SURFACES. COLOR TO BE LANDMARK® TL MOIRE BLACK AREA OF NO WORK (CLASS A FIRE-RESISTANCE RATING) PER CBC 1505 (E) CHIMNEY <u>CEILING</u> 8' - 0" (E) CORNER TRIM (E) GLASS RAILING (E) SIDING REMOVE (E) CORNER TRIM (E) (E) SIDING REMOVE (E) BRICK REMOVE (E) DS REMOVE (E) DS \_REMOVE (E) DS\_\_\_\_\_ FINISHED FLOOR 0' - 0" (E) STUCCO (E) STUCCO (E) FOUNDATION VENT (E) FOUNDATION VENT (E) FOUNDATION VENT EXISTING / DEMOLITION SOUTH ELEVATION A7 SCALE: 1/4" = 1'-0" MAXIMUM RIDGE HEIGHT FOR HOUSE110.5' MAXIMUM RIDGE HEIGHT FOR GARAGE 111.6 - (E) CHIMNEY RIDGE HEIGHT 109.692' INSTALL (N) 40 YEAR ASPHALT INSTALL (N) 40 YEAR ASPHALT SHINGLE ROOFING WITH 30# SHINGLÈ ŔOOFING WITH 30# FELT UNDERLAYMENT FELT UNDERLAYMENT (E) CORNER TRIM (E) (E) GLASS RAILING (N) HORIZONTAL SIDING TO MATCH EXISTING (E) (E) SIDING (N) CORNER (N) CORNER-(E) SIDING \_(N) DS\_-(N) DS \_ (N) DS\_ (N) DS \_\_ (E) STUCCO (E) STUCCO 95.6' F.G. -2 (N) WOOD LANDING AND STEP - (N) VENT (N) VENT (E) FOUNDATION VENT -(N) STUCCO (E) FOUNDATION VENT -TÓ MATCH - (E) FOUNDATION VENT -**EXISTING** 93.87' F.G. — NATURAL GRADE 93.90' (E) GLASS RAILING -2 PROPOSED SOUTH ELEVATION A7 SCALE: 1/4" = 1'-0"

HAWK

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■ CONTACT INFORMATION PHONE: (650)862-1113 EMAIL: scott.molton@gmail.com

■ APPROVAL

OWNER/AGENT

(E) GRADE

RIDGE HEIGHT 109.07

CEILING 8' - 0"

NATURAL GRADE 97.00 F.G.

FINISHED FLOOR 0' - 0"

GENERAL CONTRACTOR

SUBCONTRACTOR

REVISION/DESCRIPTION PLANNING SUBMITTALS 03/21/22 2 PLANNING REVISION 1 06/08/22 3 PLANNING REVISION 2 08/16/22 2

SHEET TITLE:

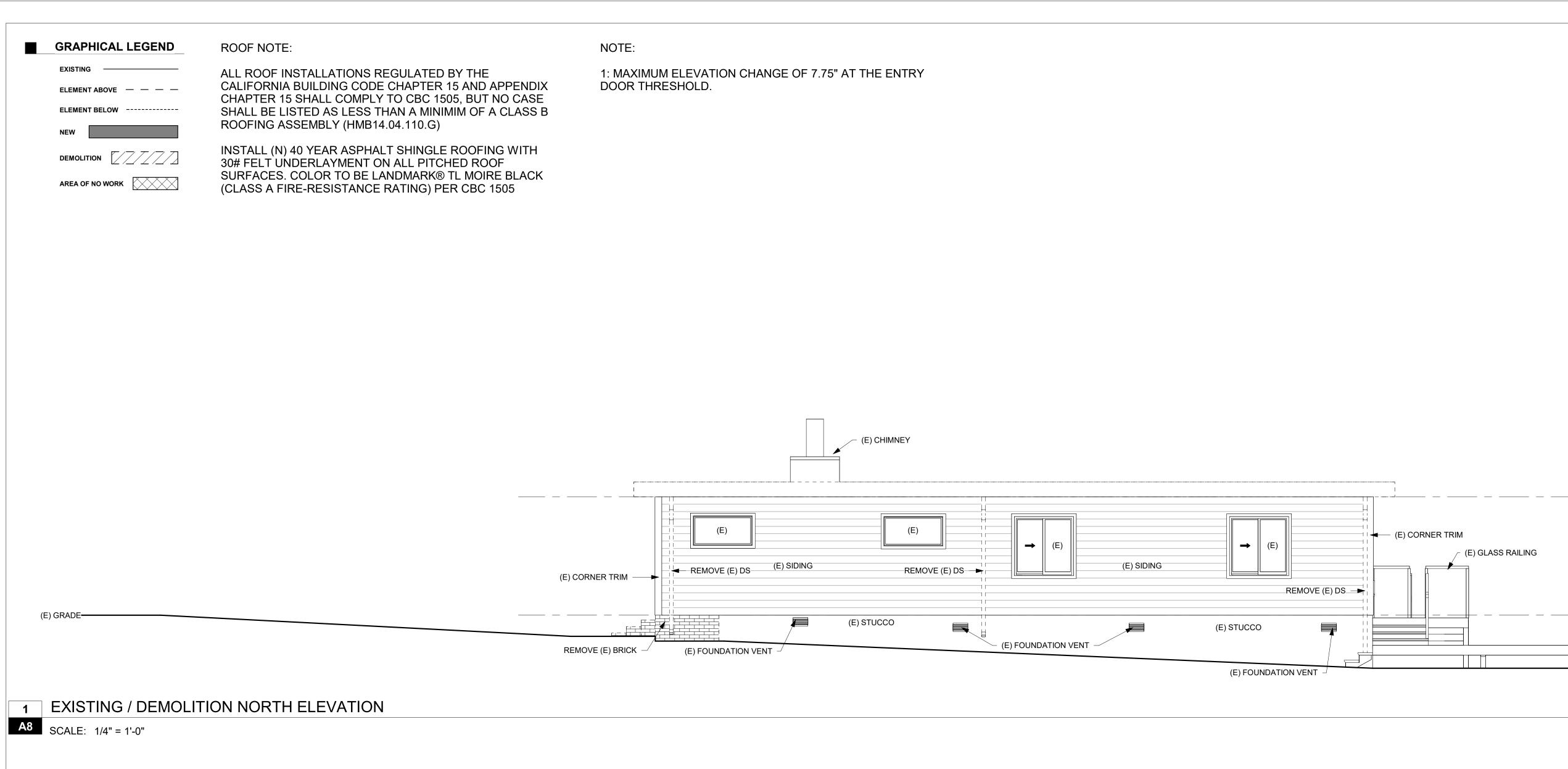
**EXISTING** / **DEMOLITION AND PROPOSED SOUTH ELEVATION** 

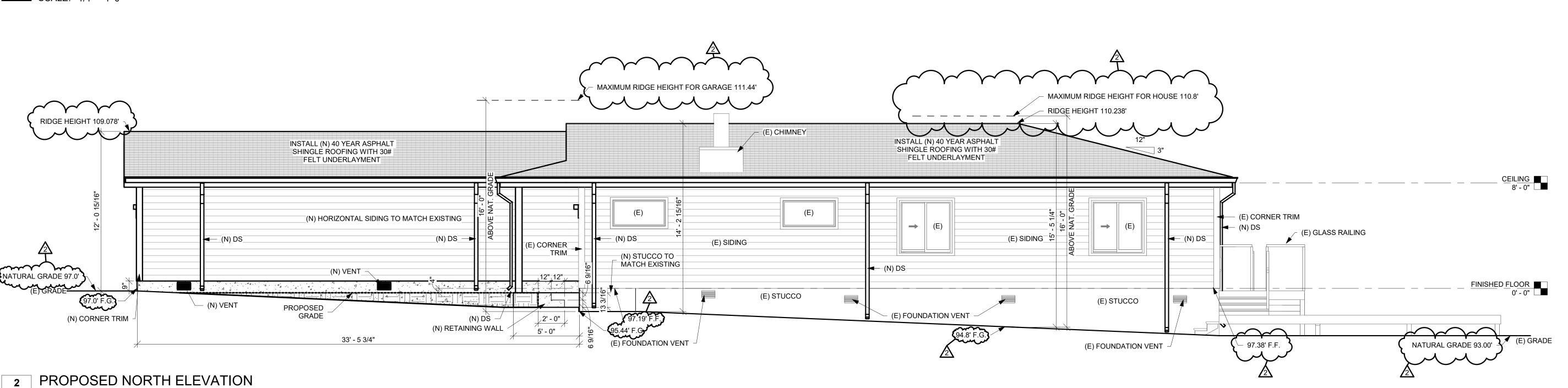
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SCALE:

As indicated

PLEASE VERIFY ALL DIMENSIONS AND REVIEW DETAILS AND NOTES FOR, BUT NOT LIMITED TO, CABINETS, PLUMBING, STRUCTURAL, AND ELECTRICAL COMPONENTS.





**A8** SCALE: 1/4" = 1'-0"

HAWK

DESIGN | CONSULTING

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EMAIL: scott.molton@gmail.com

■ APPROVAL

CEILING 8' - 0"

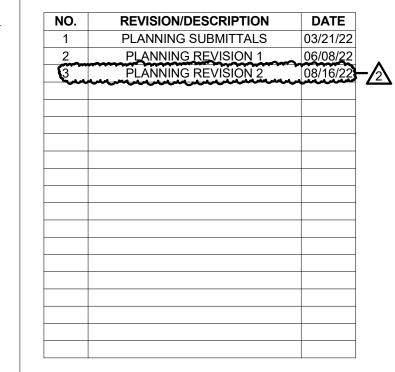
FINISHED FLOOR 0' - 0"

(E) GRADE

OWNER/AGENT

GENERAL CONTRACTOR

SUBCONTRACTOR



SHEET TITLE:

EXISTING /
DEMOLITION AND
PROPOSED NORTH
ELEVATION

DRAWN BY: CAD FILE:

**A8** 

SCALE:

As indicated

PLEASE VERIFY ALL DIMENSIONS AND REVIEW DETAILS AND NOTES FOR, BUT NOT LIMITED TO, CABINETS, PLUMBING, STRUCTURAL, AND ELECTRICAL COMPONENTS.

# GRAPHICAL LEGEND ELEMENT ABOVE — — — — ELEMENT BELOW -----

DEMOLITION

AREA OF NO WORK

INSTALL (N) 40 YEAR ASPHALT SHINGLE ROOFING WITH 30# FELT UNDERLAYMENT ON ALL PITCHED ROOF

ALL ROOF INSTALLATIONS REGULATED BY THE

ROOFING ASSEMBLY (HMB14.04.110.G)

SURFACES. COLOR TO BE LANDMARK® TL MOIRE BLACK (CLASS A FIRE-RESISTANCE RATING) PER CBC 1505

CALIFORNIA BUILDING CODE CHAPTER 15 AND APPENDIX

SHALL BE LISTED AS LESS THAN A MINIMIM OF A CLASS B

CHAPTER 15 SHALL COMPLY TO CBC 1505, BUT NO CASE

#### NOTE:

ROOF NOTE:

1: MAXIMUM ELEVATION CHANGE OF 7.75" AT THE ENTRY DOOR THRESHOLD.

#### Hiline Indoor/Outdoor LED Wall Sconce By Modern Forms

Call Us 877.445.4486

Finish: Black , Bronze Size: Short, Medium

**Product Options** 

**Details** 

 Sealed LED Housing Multi-Tiered Deck Design

 Rated Life: 50,000 Hours Designed in 2015

 Material: Aluminum Shade Material: Etched Glass Light Shield

 Dimmer Range: 10% ADA compliant, Dark Sky compliant

 ETL Listed Wet Warranty: 5 Years Functional, 2 Years Finish

Made In China

**Dimensions** 

Short Option Fixture: Width 5", Height 8", Depth 2.75" Medium Option Fixture: Width 6", Height 12", Depth 2.75" Tall Option Fixture: Width 7", Height 16", Depth 2.75"

Lighting

• 8 Watt (480 Lumens) 120 Volt Integrated LED: CRI: 85 Color Temp: 3000K Lifespan: 50000 hours

### **Additional Details**

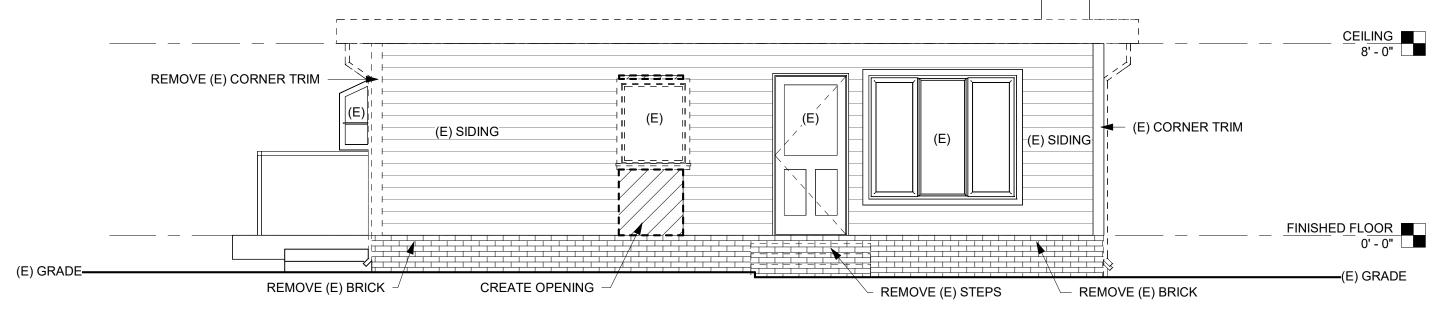
Product URL: https://www.lumens.com/hiline-indoor-outdoor-led-wall-sconce-by-modern-for ms-uu504690.html Rating: ETL Listed Wet

#### Product ID: uu504690

Prepared by:

Prepared for: Placement:

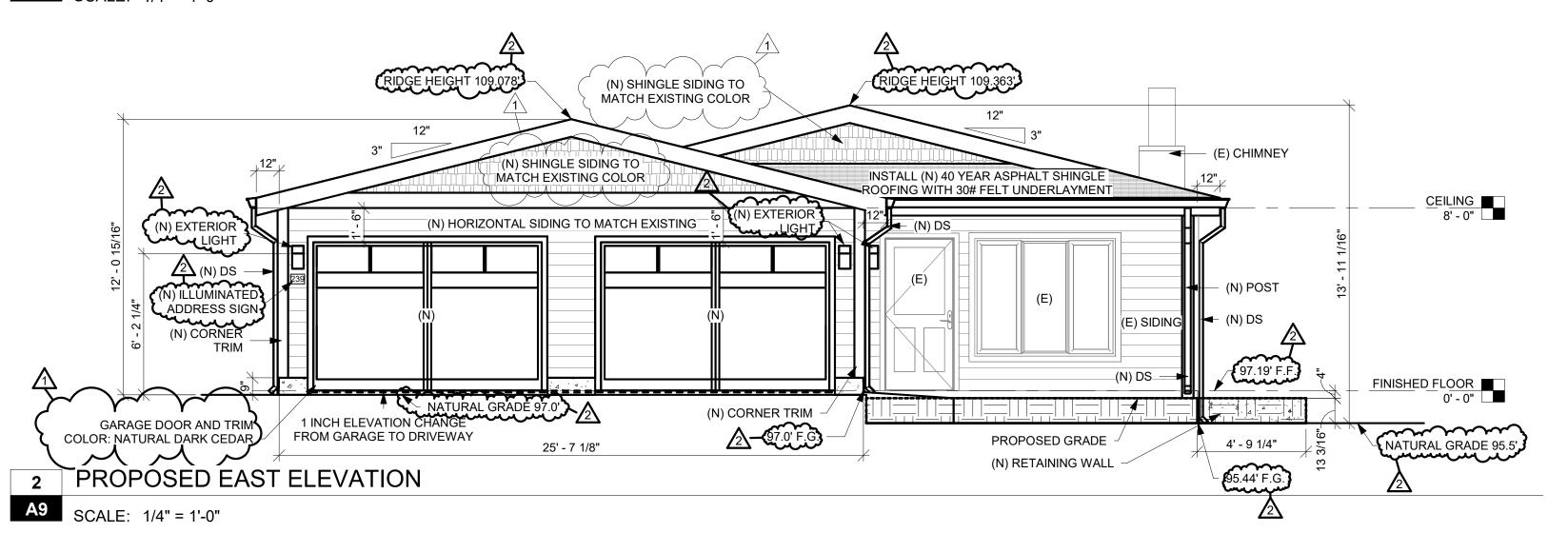
Created July 22nd, 2020

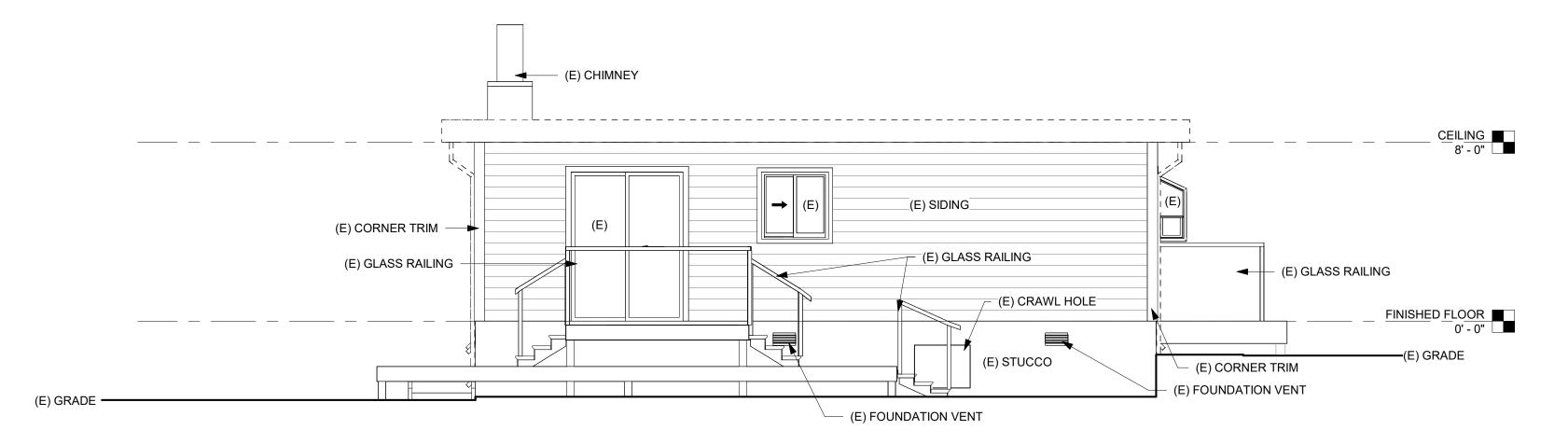


(E) CHIMNEY -

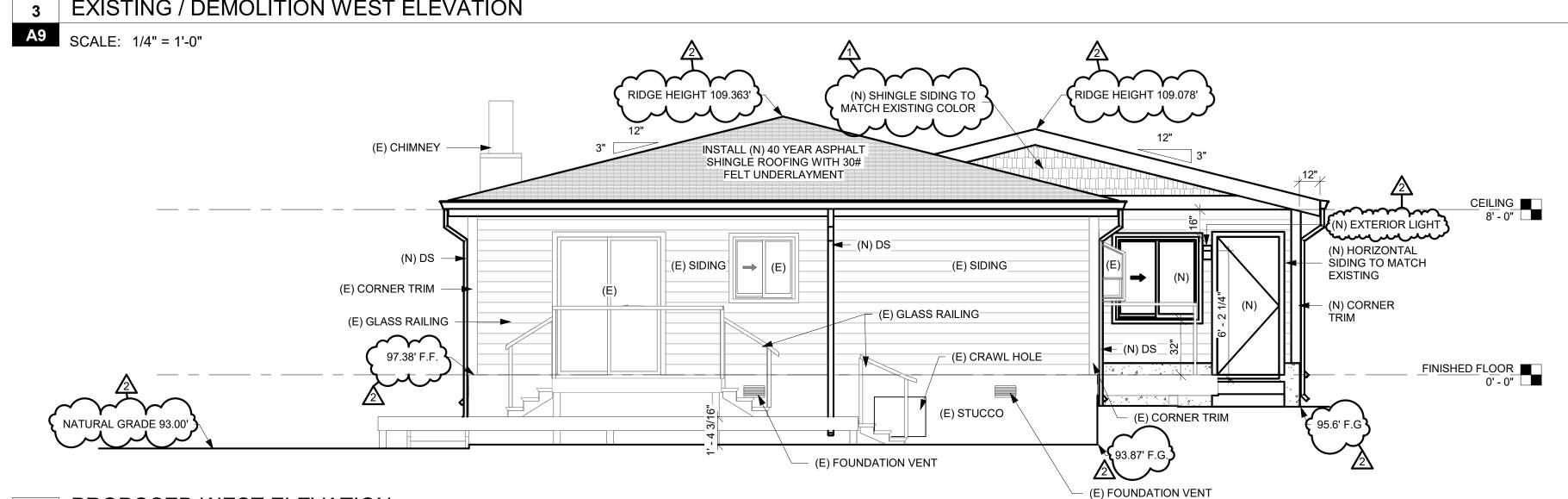
# EXISTING / DEMOLITION EAST ELEVATION

A9 SCALE: 1/4" = 1'-0"





### 3 EXISTING / DEMOLITION WEST ELEVATION



4 PROPOSED WEST ELEVATION

HAWK

DESIGN | CONSULTING

P.O. BOX 3535 HALF MOON BAY, CA 94019 650 . 560 . 8100 www.hawkdesignandconsulting.com

■ PROJECT:

MOLTON GARAGE ADDITION AND ROOF CONVERSION

■ OWNER:

SCOTT AND KELLEY MOLTON

■ PROJECT ADDRESS:

239 SEVILLA AVE EL GRANADA, CA 94018

■ CONTACT INFORMATION PHONE: (650)862-1113 EMAIL: scott.molton@gmail.com

■ APPROVAL

OWNER/AGENT

**GENERAL CONTRACTOR** 

SUBCONTRACTOR

| NO. | REVISION/DESCRIPTION | DATE     |
|-----|----------------------|----------|
| 1   | PLANNING SUBMITTALS  | 03/21/22 |
| 2   | PLANNING REVISION 1  | 06/08/22 |
| (3  | PLANNING REVISION 2  | 08/16/22 |
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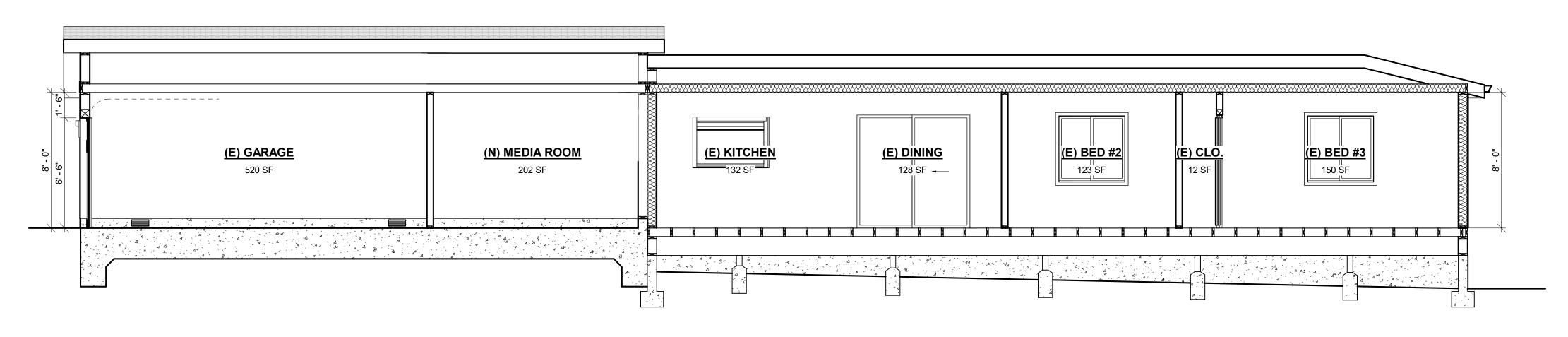
**EXISTING** / **DEMOLITION AND PROPOSED EAST AND WEST ELEVATION** 

DRAWN BY:

As indicated

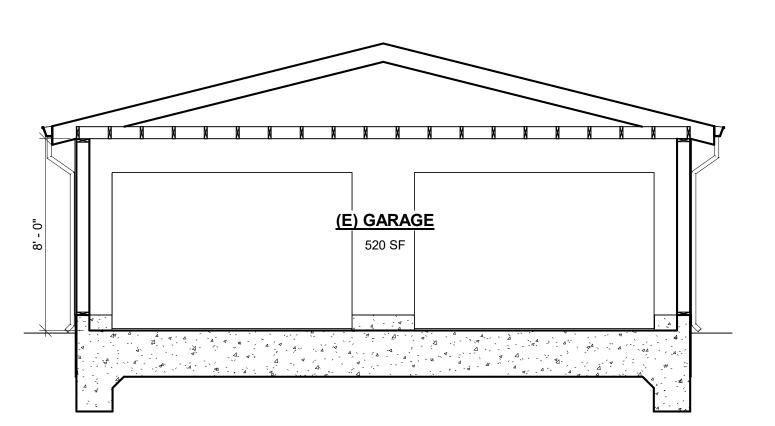
DETAILS AND NOTES FOR, BUT NOT LIMITED TO, CABINETS, PLUMBING, STRUCTURAL, AND **ELECTRICAL COMPONENTS.** 

SCALE:



# 1 CROSS-SECTION A

A10 SCALE: 1/4" = 1'-0"



2 CROSS-SECTION B

A10 SCALE: 1/4" = 1'-0"

HAWK

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■ APPROVAL

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GENERAL CONTRACTOR

SUBCONTRACTOR

| NO. | REVISION/DESCRIPTION | DATE    |
|-----|----------------------|---------|
| 1   | PLANNING SUBMITTALS  | 03/21/2 |
| 2   | PLANNING REVISION 1  | 06/08/2 |
| 3   | PLANNING REVISION 2  | 08/16/2 |
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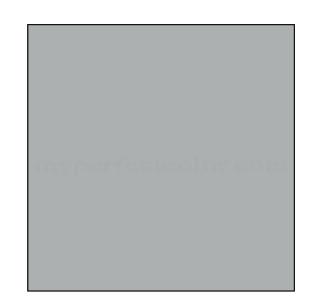
**CROSS-SECTIONS** 

DRAWN BY:

SCALE:

174 - 1 -0

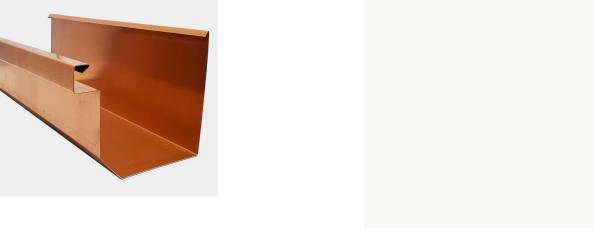
PLEASE VERIFY ALL DIMENSIONS AND REVIEW DETAILS AND NOTES FOR, BUT NOT LIMITED TO, CABINETS, PLUMBING, STRUCTURAL, AND ELECTRICAL COMPONENTS.



**EXTERIOR SIDING AND SHINGLES:** VALSPAR METROPOLIS 4005-1C



GUTTER AND DOWNSPOUTS: COPPER



**EXTERIOR WINDOW TRIM AND DOOR TRIM COLOR:** VALSPAR ULTRA WHITE 7006-24



GARAGE DOOR COLOR: NATURAL DARK CEDAR



**GARAGE DOOR TRIM COLOR:** NATURAL DARK CEDAR



ROOFING:40 YEAR CERTAINTEED ROOFING COLOR TO BE LANDMARK® TL MOIRE BLACK

**ROOF FASCIA:**VALSPAR ULTRA WHITE 7006-24

**ROOF FASCIA:** VALSPAR ULTRA WHITE

ROOFING:40 YEAR CERTAINTEED ROOFING COLOR TO BE LANDMARK® TL MOIRE BLACK

**DOWNSPOUT AND GUTTERS:** COPPER

7006-24 - EXTERIOR WINDOW TRIM AND DOOR TRIM COLOR: VALSPAR ULTRA WHITE 7006-24 **GARAGE DOOR TRIM COLOR:** NATURAL DARK CEDAR **SIDING:** VALSPAR METROPOLIS 4005-1C EXTERIOR WINDOW AND DOOR COLOR: VALSPAR ULTRA WHITE 7006-24

**EXTERIOR WINDOW AND DOOR** 

**COLOR:** VALSPAR ULTRA WHITE

7006-24

SHINGLES: VALSPAR METROPOLIS 4005-1C

GARAGE DOOR COLOR: NATURAL DARK CEDAR

SCALE:

PLEASE VERIFY ALL DIMENSIONS AND REVIEW DETAILS AND NOTES FOR, BUT NOT LIMITED TO, CABINETS, PLUMBING, STRUCTURAL, AND ELECTRICAL COMPONENTS.

DESIGNER IS NOT RESPONSIBLE FOR INCORRECT MEASUREMENTS. ANY AND ALL DIMENSIONAL DISPUTES SHALL BE BROUGHT TO THE DESIGNER'S AND/OR CONTRACTOR'S ATTENTION.

■ APPROVAL

OWNER/AGENT

GENERAL CONTRACTOR

SUBCONTRACTOR

REVISION/DESCRIPTION DATE PLANNING SUBMITTALS 03/21/22 2 PLANNING REVISION 1 06/08/22 3 PLANNING REVISION 2 08/16/22 2

HAWK

DESIGN | CONSULTING

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MOLTON GARAGE ADDITION AND ROOF CONVERSION

SCOTT AND KELLEY MOLTON

■ PROJECT ADDRESS:

239 SEVILLA AVE EL GRANADA, CA 94018

■ CONTACT INFORMATION PHONE: (650)862-1113

EMAIL: scott.molton@gmail.com

■ PROJECT:

■ OWNER:

SHEET TITLE: **BUILDING MATERIAL** 

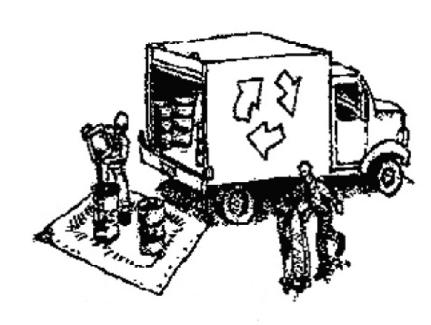


# Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

Clean Water. Healthy Community.

### **Materials & Waste Management**



#### **Non-Hazardous Materials**

- ☐ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- ☐ Use (but don't overuse) reclaimed water for dust control.

### **Hazardous Materials**

- ☐ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- ☐ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- ☐ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ☐ Arrange for appropriate disposal of all hazardous wastes.

### **Waste Management**

- ☐ Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- ☐ Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- ☐ Clean or replace portable toilets, and inspect them frequently for leaks and spills
- ☐ Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- ☐ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

### **Construction Entrances and Perimeter**

- ☐ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ☐ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

# **Equipment Management & Spill Control**



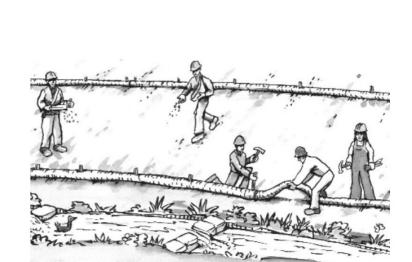
#### Maintenance and Parking

- ☐ Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- ☐ Perform major maintenance, repair jobs, and vehicle and equipment washing off site. ☐ If refueling or vehicle maintenance must be done
- onsite, work in a bermed area away from storm drains and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- ☐ If vehicle or equipment cleaning must be done onsite. clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- ☐ Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment.

### **Spill Prevention and Control**

- ☐ Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- ☐ Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- ☐ Clean up spills or leaks immediately and dispose of cleanup materials properly.
- ☐ Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- ☐ Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- ☐ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ☐ Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

# **Earthmoving**

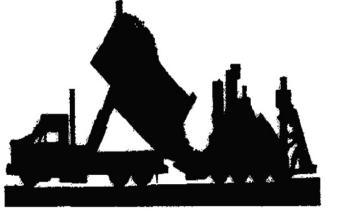


- ☐ Schedule grading and excavation work during dry weather.
- ☐ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ☐ Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.
- ☐ Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins, gravel bags, berms, etc.
- ☐ Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

### **Contaminated Soils**

- ☐ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
- Unusual soil conditions, discoloration, or odor.
- Abandoned underground tanks.
- Abandoned wells
- Buried barrels, debris, or trash.

# Paving/Asphalt Work

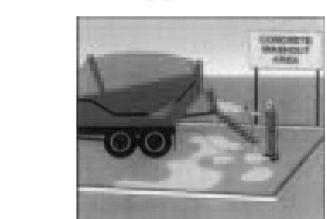


- Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- ☐ Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- ☐ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- ☐ Do not use water to wash down fresh asphalt concrete pavement.

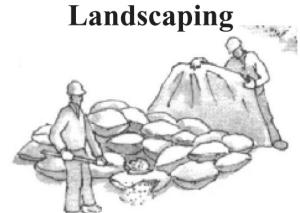
### Sawcutting & Asphalt/Concrete Removal

- ☐ Protect nearby storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- ☐ Shovel, abosorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is
- ☐ If sawcut slurry enters a catch basin, clean it up immediately.

# Concrete, Grout & Mortar **Application**

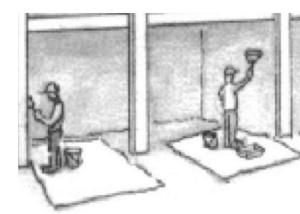


- ☐ Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind
- ☐ Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and in a manner that will prevent leaching into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as
- ☐ When washing exposed aggregate, prevent washwater from entering storm drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or drain onto a bermed surface to be pumped and disposed of properly.



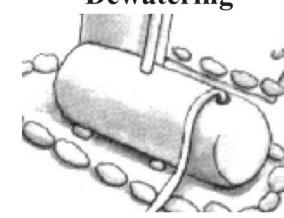
- ☐ Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- ☐ Stack bagged material on pallets and under cover.
- ☐ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

# **Painting & Paint Removal**

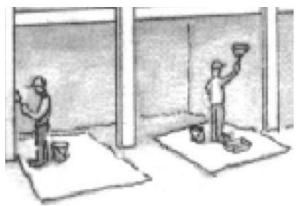


#### **Painting Cleanup and Removal**

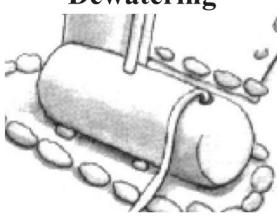
- ☐ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- ☐ For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
- ☐ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- ☐ Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- ☐ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a statecertified contractor.



- ☐ Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant.
- ☐ In areas of known or suspected contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.



## **Dewatering**



- ☐ Divert run-on water from offsite away from all disturbed areas.
- ☐ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.

Storm drain polluters may be liable for fines of up to \$10,000 per day!

# HAWK

DESIGN | CONSULTING

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■ OWNER:

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■ PROJECT ADDRESS: 239 SEVILLA AVE EL

GRANADA, CA 94018

**■ CONTACT INFORMATION** PHONE: (650)862-1113 EMAIL: scott.molton@gmail.com

**■** APPROVAL

**OWNER/AGENT** 

GENERAL CONTRACTOR

**SUBCONTRACTOR** 

PLANNING SUBMITTALS

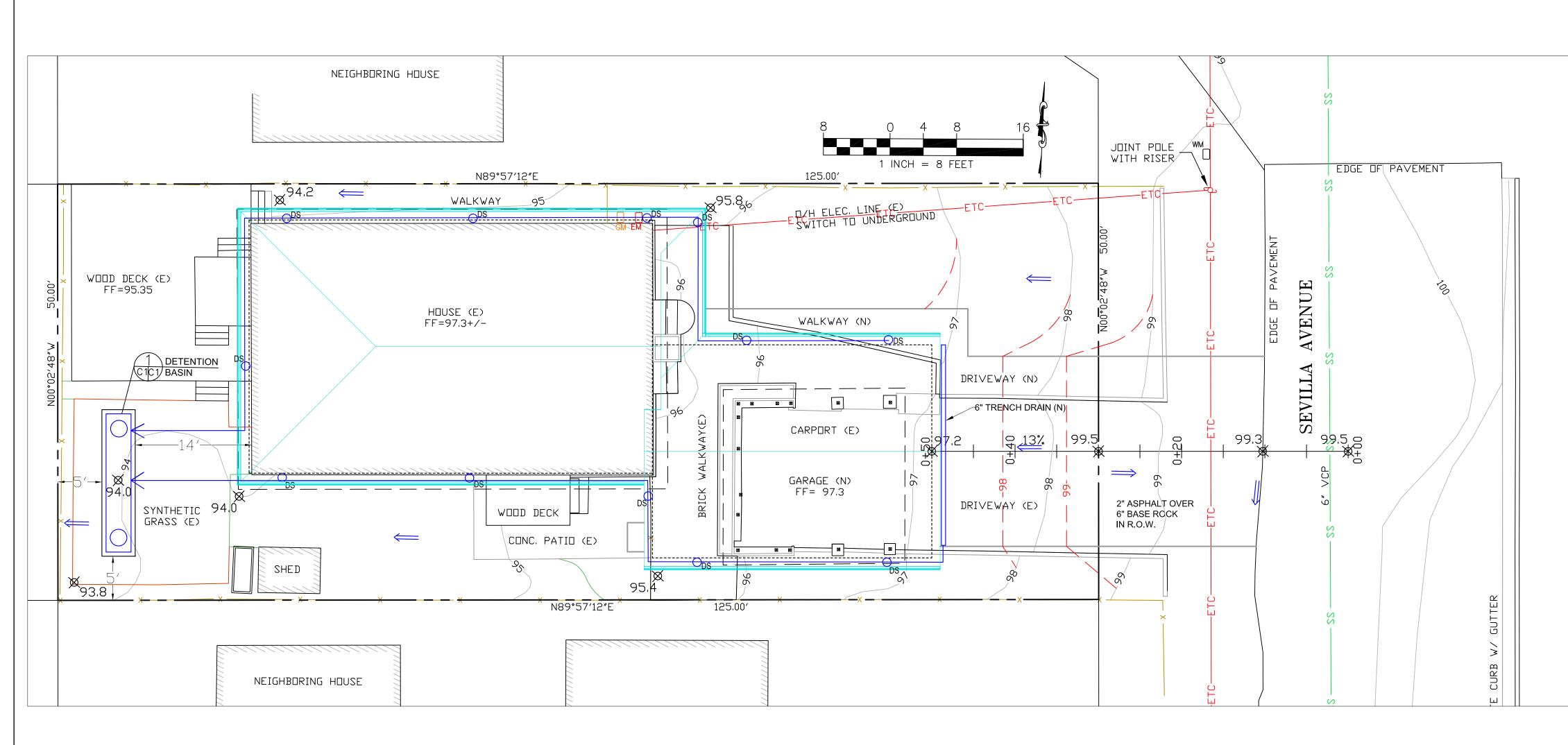
SHEET TITLE:

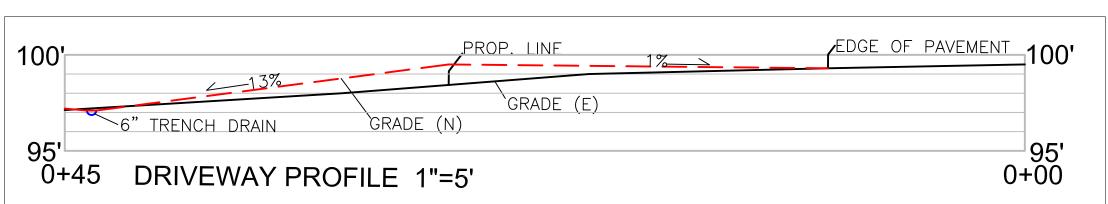
**CONSTRUCTION BEST MANAGEMENT PRACTICES** 

SCALE:

DETAILS AND NOTES FOR, BUT NOT LIMITED TO, CABINETS, PLUMBING, STRUCTURAL, AND

MEASUREMENTS. ANY AND ALL DIMENSIONAL DISPUTES SHALL BE BROUGHT TO THE DESIGNER'S







EXISTING CONTOURS PROPOSED CONTOURS PROPOSED SPOT ELEVATION

4" MIN SOLID DRAIN PIPE

### **GENERAL NOTES**

- 1. PLANS PREPARED AT THE REQUEST OF:
- SCOTT MOLTON, OWNER
- 2. TOPOGRAPHY BY LEA AND BRAZE ENGINEERING, SURVEYED JANUARY, 2022. 3. THIS IS NOT A BOUNDARY SURVEY.
- 4. ELEVATION DATUM ASSUMED.
- 5. THE GEOTECHNICAL REPORT:

GEOTECHNICAL STUDY: PENDING. THE PROJECT GEOTECHNICAL ENGINEER SHALL BE RETAINED ON THE CONSTRUCTION SITE. THE GEOTECHNICAL ENGINEER OF RECORD IS NOT YET DETERMINED. THE CONTRACTOR MUST SHALL NOTIFY THE GEOTECHNICAL ENGINEER OF RECORD AT LEAST 48 HOURS BEFORE CONSTRUCTION OF GEOTECHNICAL RELATED WORK. THE GEOTECHNICAL PART OF CONSTRUCTION WORK, INCLUDING BUT NOT LIMITED TO, ALL THE EARTHWORK AND FOUNDATION CONSTRUCTIONS, MUST SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD.

6. STORMWATER MANAGEMENT CONSTRUCTION INSPECTIONS SHALL BE SCHEDULED FOR APPLICABLE DRAINAGE INSPECTIONS, WHICH INCLUDE SITE CLEARANCE AND EROSION CONTROL MEASURES INSTALLATION AS WELL AS INSPECTION OF MAJOR DRAINAGE CONTAINMENT, TREATMENT, AND CONVEYANCE DEVICES BEFORE BEING BURIED (INCLUDING REQUIRED MATERIAL LABELS, E.G. PIPES, SUB-GRADE MATERIALS, ETC.). PLEASE FOLLOW THE INSPECTION CARD INSTRUCTIONS CALL THE GEOTECHNICAL ENGINEER TO SCHEDULE DRAINAGE INSPECTIONS ACCORDINGLY. THERE SHALL BE THREE INSPECTIONS: ONE FOR EROSION CONTROL INSTALLATION, ONE BEFORE DRAINAGE FACILITIES ARE BURIED, AND ONE FOR FINAL WALK AROUND.

#### DRAINAGE NOTES

1. DRAINAGE INTENT: IT IS THE INTENT OF THE DRAINAGE SYSTEM TO CONVEY ROOF RUNOFF TO A SAFE LOCATION, AND TO MINIMIZE EXCESSIVE MOISTURE AROUND FOUNDATIONS. DIRECT SLOPES SUCH THAT STORMWATER WILL NOT BE DIVERTED ONTO ADJACENT PROPERTIES.

2. ALL DOWNSPOUT DRAIN LINES SHALL LEAD TO DETENTION BASIN, AS

3. ALL ROOF DRAINAGE PIPES SHALL BE 4" DIAMETER MINIMUM SOLID PIPE, SLOPED AT 1% MINIMUM.

4. IT IS THE PROPERTY OWNER'S RESPONSIBILITY TO CHECK ON ALL STORMWATER FACILITIES SUCH AS ROOF GUTTERS, DOWNSPOUT LINES, AND THE DETENTION BASIN AND ENERGY DISSIPATERS TO BE SURE THAT THEY ARE CLEAR OF EXCESSIVE DEBRIS AND OPERATING EFFICIENTLY. THE FACILITIES SHALL BE CHECKED EVERY FALL AND PERIODICALLY DURING THE RAINY SEASON.

# **GRADING NOTES**

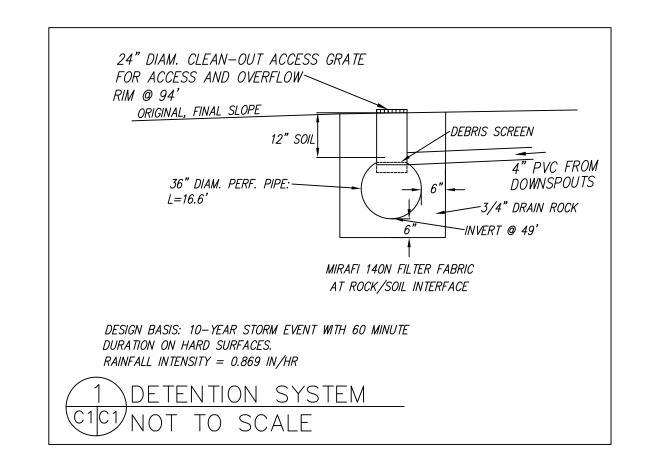
CUT VOLUME: 10 CY (FOR NEW FOUNDATIONS) FILL VOLUME: 10 CY (FOR DRIVEWAY)

VOLUMES ABOVE ARE APPROXIMATE.

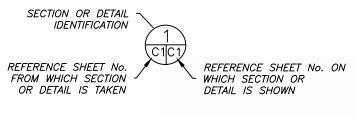
THE SUBGRADE BELOW ALL PAVED AREAS SHALL BE BASEROCK COMPACTED TO 95%.

ALL GRADING SHALL CONFORM TO LOCAL CODES AND ORDINANCES.

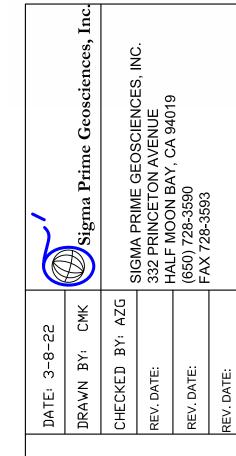
ALL TRENCHES UNDER PROPOSED PAVED AREAS OR CONCRETE SHALL BE BACKFILLED TO SUBGRADE ELEVATION WITH COMPACTED APPROVED GRANULAR MATERIALS. IF TRENCHES ARE IN PROPOSED LANDSCAPE AREAS, THEY SHALL BE BACKFILLED WITH COMPACTED APPROVED GRANULAR MATERIAL TO WITHIN ONE FOOT OF FINISHED GRADE, AND THEN FILLED WITH HAND TAMPED SOILS.



#### SECTION AND DETAIL CONVENTION



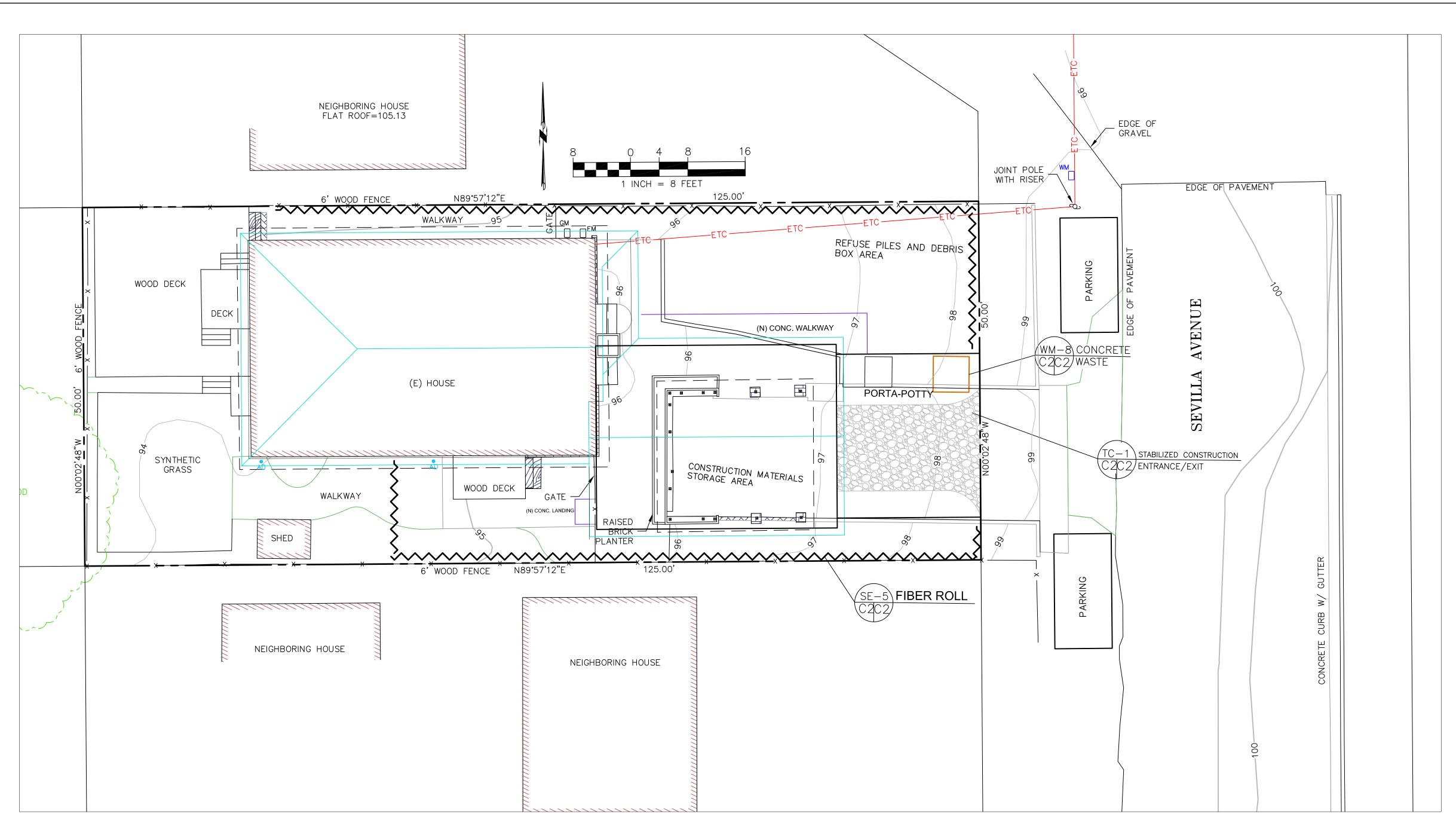


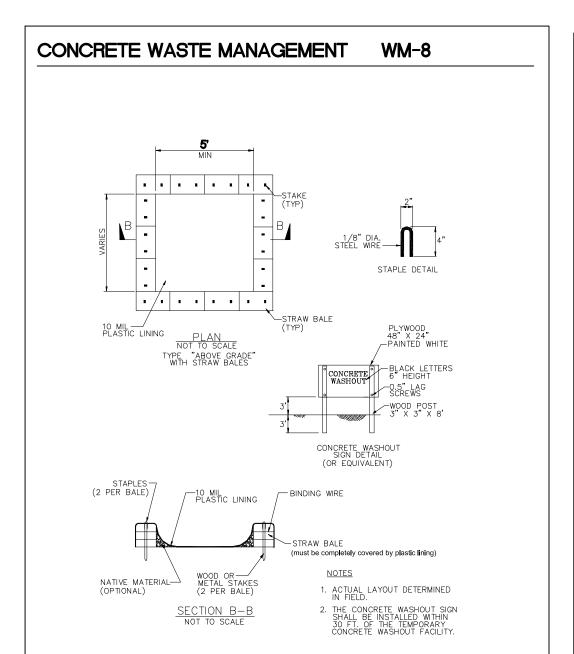


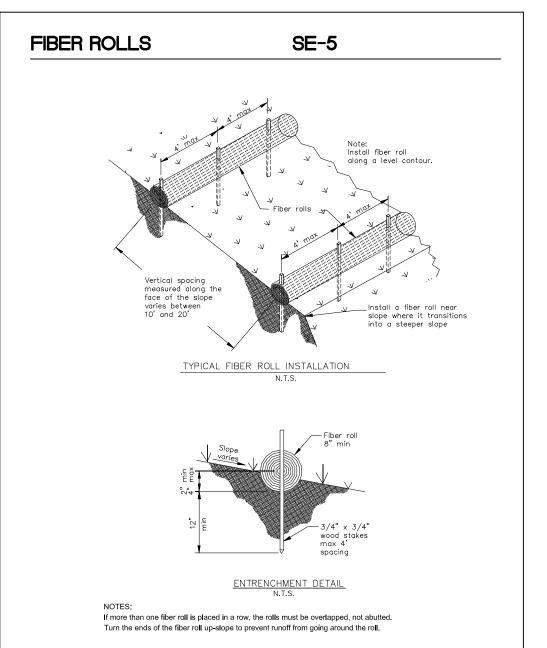
MOLTON PROPERTY 239 SEVILLA AVE, EL GRANADA APN 047-049-150 GRADING DRAINAGE

SHEET

C-1







### GENERAL EROSION AND SEDIMENT CONTROL NOTES



- There will be no stockpiling of soil. All excavated soil will be hauled off-site as it is excavated.
- · Perform clearing and earth-moving activities only during dry weather. Measures to ensure adequate erosion and sediment control shall be installed prior to earth-moving activities and construction.
- Erosion control materials to be on-site during off-season.
- · Measures to ensure adequate erosion and sediment control are required year-round. Stabilize all denuded areas and maintain erosion control measures continuously between October 1 and April 30.
- Store, handle, and dispose of construction materials and wastes properly, so as to prevent their contact with stormwater.
- · Control and prevent the discharge of all potential pollutants, including pavement cutting wastes, paints, concrete, petroleum products, chemicals, wash water or sediments, and non-stormwater discharges to storm drains and watercourses.
- · Avoid cleaning, fueling, or maintaining vehicles on-site, except in a designated area where wash water is contained and treated.
- · Limit and time applications of pesticides and fertilizers to prevent polluted runoff.
- · Limit construction access routes to stabilized, designated access points
- · Avoid tracking dirt or other materials off-site; clean off-site paved areas and sidewalks using dry sweeping methods.
- Train and provide instruction to all employees and subcontractors regarding the Watershed Protection Maintenance Standards and construction Best Management Practices.
- · Placement of erosion materials is required on weekends and during rain events.
- The areas delineated on the plans for parking, grubbing, storage etc., shall not be enlarged or "run over."
- Dust control is required year-round.
- · Erosion control materials shall be stored on-site.
- There are no trees or driplines on the site.

### **EROSION CONTROL POINT OF CONTACT**

THIS PERSON WILL BE RESPONSIBLE FOR EROSION CONTROL AT THE SITE AND WILL BE THE COUNTY'S MAIN POINT OF CONTACT IF CORRECTIONS ARE REQUIRED.

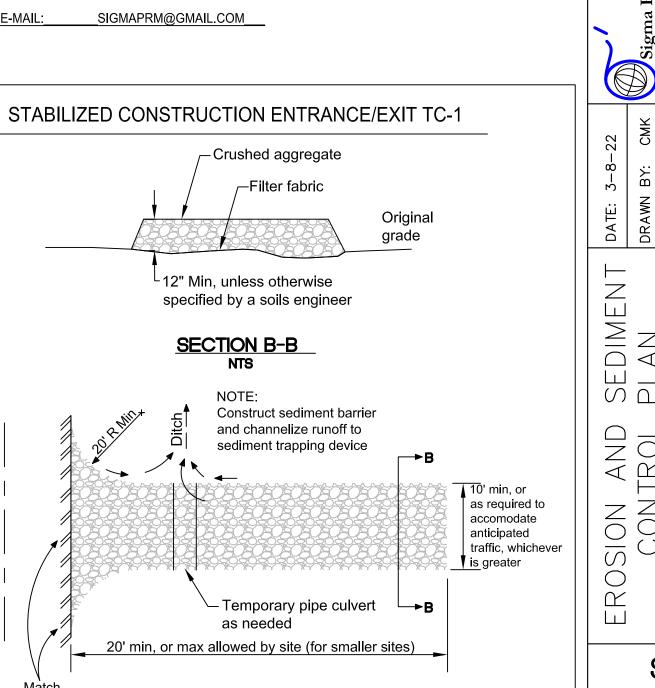
NAME: CHARLES KISSICK

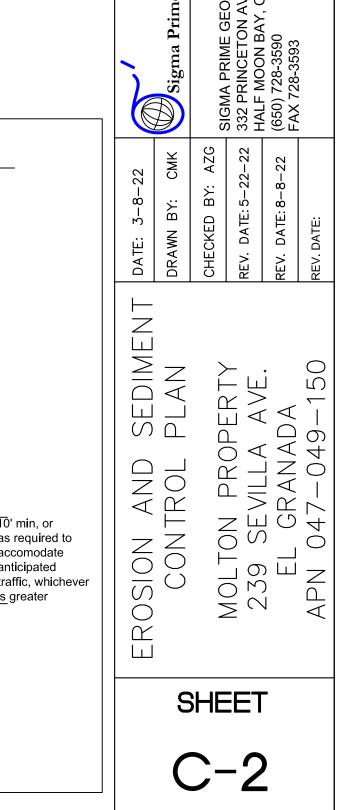
TITLE/QUALIFICATION: PROJECT ENGINEER

PHONE: 650-728-3590

Existing

Grade





# 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 1

Y N/A RESPON. CHAPTER 3 **GREEN BUILDING SECTION 301 GENERAL 301.1 SCOPE.** Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. from the accessible parking space. 301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the Code. Chapter 2, to the building. building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration. Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or Section 4.106.4.2.2, Item 3. improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1 et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates. designed to comply with the following: 301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies 3. One in every 25 EV spaces, but not less than one EV space, shall have an 8-foot (2438 mm) specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used. **SECTION 302 MIXED OCCUPANCY BUILDINGS 302.1 MIXED OCCUPANCY BUILDINGS.** In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. **ABBREVIATION DEFINITIONS:** Department of Housing and Community Development California Building Standards Commission Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development Low Rise High Rise Additions and Alterations **CHAPTER 4** RESIDENTIAL MANDATORY MEASURES **DIVISION 4.1 PLANNING AND DESIGN SECTION 4.102 DEFINITIONS** with the California Electrical Code. 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water. WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls. or facilitating future EV charging. 4.106 SITE DEVELOPMENT are installed for use. 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes. management of storm water drainage and erosion controls shall comply with this section. 4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less nearest whole number. than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site. Retention basins of sufficient size shall be utilized to retain storm water on the site. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency 3. Compliance with a lawfully enacted storm water management ordinance. Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil. (Website: https://www.waterboards.ca.gov/water issues/programs/stormwater/construction.html) 4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following: 2. Water collection and disposal systems 3. French drains Water retention gardens 5. Other water measures which keep surface water away from buildings and aid in groundwater **Exception**: Additions and alterations not altering the drainage path. **4.106.4 Electric vehicle (EV) charging for new construction.** New construction shall comply with Sections 4.106.4.1, 4.106.4.2, or 4.106.4.3 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625. 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions: designed in accordance with Section 4.106.4.2.4. 1.1 Where there is no commercial power supply. 1.2 Where there is evidence substantiating that meeting the requirements will alter the local utility infrastructure design requirements on the utility side of the meter so as to increase the utility side cost to the homeowner or the developer by more than \$400.00 per 2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities. 4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere

minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent

4.106.4.2 New multifamily dwellings. If residential parking is available, ten (10) percent of the total number of

spaces (EV spaces) capable of supporting future EVSE. Calculations for the required number of EV spaces shall

1. Construction documents are intended to demonstrate the project's capability and capacity for

**4.106.4.2.1 Electric vehicle charging space (EV space) locations.** Construction documents shall indicate the location of proposed EV spaces. Where common use parking is provided at least one EV space

shall be located in the common use parking area and shall be available for use by all residents.

2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed

parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging

location shall be permanently and visibly marked as "EV CAPABLE".

be rounded up to the nearest whole number.

facilitating future EV charging.

4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination 4.106.4.2.1.1 Electric Vehicle Charging Stations (EVCS) When EV chargers are installed, EV spaces required by Section 4.106.2.2, Item 3, shall comply with at least one of the following options:

- 1. The EV space shall be located adjacent to an accessible parking space meeting the requirements of the California Building Code, Chapter 11A, to allow use of the EV charger
- 2. The EV space shall be located on an accessible route, as defined in the California Building

**Exception:** Electric vehicle charging stations designed and constructed in compliance with the California Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.1.1 and

Note: Electric Vehicle charging stations serving public housing are required to comply with the California

**4.106.4.2.2 Electric vehicle charging space (EV space) dimensions.** The EV space shall be

- The minimum length of each EV space shall be 18 feet (5486 mm). 2. The minimum width of each EV space shall be 9 feet (2743 mm).
- wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm).
- a. Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction.

4.106.4.2.3 Single EV space required. Install a listed raceway capable of accommodating a 208/240volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close proximity to the proposed location of the EV space. Construction documents shall identify the raceway termination point. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.

**4.106.4.2.4 Multiple EV spaces required.** Construction documents shall indicate the raceway termination point and proposed location of future EV spaces and EV chargers. Construction documents shall also provide information on amperage of future EVSE, raceway method(s), wiring schematics and electrical load calculations to verify that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at the full rated amperage of the EVSE. Plan design shall be based upon a 40-ampere minimum branch circuit. Required raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the

4.106.4.2.5 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLÉ" in accordance

**4.106.4.3 New hotels and motels.** All newly constructed hotels and motels shall provide EV spaces capable of supporting future installation of EVSE. The construction documents shall identify the location

- 1. Construction documents are intended to demonstrate the project's capability and capacity
- 2. There is no requirement for EV spaces to be constructed or available until EV chargers

**4.106.4.3.1 Number of required EV spaces.** The number of required EV spaces shall be based on the total number of parking spaces provided for all types of parking facilities in accordance with Table 4.106.4.3.1. Calculations for the required number of EV spaces shall be rounded up to the

| TABLE 4.106.4.3.1              |                                 |
|--------------------------------|---------------------------------|
| TOTAL NUMBER OF PARKING SPACES | NUMBER OF REQUIRED EV<br>SPACES |
| 0-9                            | 0                               |
| 10-25                          | 1                               |
| 26-50                          | 2                               |
| 51-75                          | 4                               |
| 76-100                         | 5                               |
| 101-150                        | 7                               |
| 151-200                        | 10                              |
| 201 and over                   | 6 percent of total              |

4.106.4.3.2 Electric vehicle charging space (EV space) dimensions. The EV spaces shall be designed to

1. The minimum length of each EV space shall be 18 feet (5486mm). 2. The minimum width of each EV space shall be 9 feet (2743mm)

4.106.4.3.3 Single EV space required. When a single EV space is required, the EV space shall be designed

4.106.4.3.4 Multiple EV spaces required. When multiple EV spaces are required, the EV spaces shall be

4.106.4.3.5 Identification. The service panels or sub-panels shall be identified in accordance with Section

**4.106.4.3.6 Accessible EV spaces.** In addition to the requirements in Section 4.106.4.3, EV spaces for hotels/motels and all EVSE, when installed, shall comply with the accessibility provisions for the EV charging stations in the California Building Code, Chapter 11B.

### **DIVISION 4.2 ENERGY EFFICIENCY**

**4.201.1 SCOPE.** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.

### **DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION**

buildings affected and other important enactment dates.

#### 4.303 INDOOR WATER USE

4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3,

Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final

completion, certificate of occupancy, or final permit approval by the local building department. See Civil

Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential

4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush.

The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.

4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

**4.303.1.3.2 Multiple showerheads serving one shower**. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showerhead.

#### 4.303.1.4 Faucets.

4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.

4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gallons per minute at 60 psi.

**4.303.1.4.3 Metering Faucets.** Metering faucets when installed in residential buildings shall not deliver more than 0.2 gallons per cycle.

**4.303.1.4.4 Kitchen Faucets.** The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve

4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code.

#### THIS TABLE COMPILES THE DATA IN SECTION 4.303.1. AND IS INCLUDED AS A CONVENIENCE FOR THE USER.

| TABLE - MAXIMUM FIXTUR                           | RE WATER USE                                   |
|--|--|
| FIXTURE TYPE                                     | FLOW RATE                                      |
| SHOWER HEADS<br>(RESIDENTIAL)                    | 1.8 GMP @ 80 PSI                               |
| LAVATORY FAUCETS<br>(RESIDENTIAL)                | MAX. 1.2 GPM @ 60 PSI<br>MIN. 0.8 GPM @ 20 PSI |
| LAVATORY FAUCETS IN<br>COMMON & PUBLIC USE AREAS | 0.5 GPM @ 60 PSI                               |
| KITCHEN FAUCETS                                  | 1.8 GPM @ 60 PSI                               |
| METERING FAUCETS                                 | 0.2 GAL/CYCLE                                  |
| WATER CLOSET                                     | 1.28 GAL/FLUSH                                 |
| URINALS  | 0.125 GAL/FLUSH                                |

### 4.304 OUTDOOR WATER USE

4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: https://www.water.ca.gov/

#### DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE **EFFICIENCY**

YES
NOT APPLICABLE
RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER,
OWNER, CONTRACTOR, INSPECTOR ETC.)

#### 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE

4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing

#### 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING 4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste

#### management ordinance. Exceptions

- 1. Excavated soil and land-clearing debris.
- 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably
- 3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.
- 4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as
- necessary and shall be available during construction for examination by the enforcing agency.
- 1. Identify the construction and demolition waste materials to be diverted from disposal by recycling. reuse on the project or salvage for future use or sale. 2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or
- bulk mixed (single stream). 3. Identify diversion facilities where the construction and demolition waste material collected will be
- 4. Identify construction methods employed to reduce the amount of construction and demolition waste
- 5. Specify that the amount of construction and demolition waste materials diverted shall be calculated
- by weight or volume, but not by both. **4.408.3 WASTE MANAGEMENT COMPANY.** Utilize a waste management company, approved by the

enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.

materials will be diverted by a waste management company. 4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4

Note: The owner or contractor may make the determination if the construction and demolition waste

lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in **4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE.** Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds

per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1

**4.408.5 DOCUMENTATION**. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4...

- 1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in
- documenting compliance with this section. 2. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

#### 4.410 BUILDING MAINTENANCE AND OPERATION

- **4.410.1 OPERATION AND MAINTENANCE MANUAL.** At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:
- 1. Directions to the owner or occupant that the manual shall remain with the building throughout the
- life cycle of the structure.
- 2. Operation and maintenance instructions for the following: a. Equipment and appliances, including water-saving devices and systems, HVAC systems,
- photovoltaic systems, electric vehicle chargers, water-heating systems and other major
- b. Roof and yard drainage, including gutters and downspouts. c. Space conditioning systems, including condensers and air filters.
- d. Landscape irrigation systems.
- e. Water reuse systems.
- 3. Information from local utility, water and waste recovery providers on methods to further reduce
- resource consumption, including recycle programs and locations. 4. Public transportation and/or carpool options available in the area
- 5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent
- and what methods an occupant may use to maintain the relative humidity level in that range. 6. Information about water-conserving landscape and irrigation design and controllers which conserve
- 7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5
- feet away from the foundation 8. Information on required routine maintenance measures, including, but not limited to, caulking,
- painting, grading around the building, etc.
- 9. Information about state solar energy and incentive programs available. 10. A copy of all special inspections verifications required by the enforcing agency or this code.
- 4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a

building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper. corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.

**Exception:** Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of

### DIVISION 4.5 ENVIRONMENTAL QUALITY

### **SECTION 4.501 GENERAL**

The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.

**SECTION 4.502 DEFINITIONS** 5.102.1 DEFINITIONS

The following terms are defined in Chapter 2 (and are included here for reference)

**AGRIFIBER PRODUCTS.** Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section

DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.

DESIGN | CONSULTING

P.O. BOX 3535 HALF MOON BAY, CA 94019 650 . 743 . 8743 www.hawkdesignandconsulting.com

#### ■ PROJECT:

MOLTON GARAGE ADDITION AND ROOF CONVERSION

#### ■ OWNER:

SCOTT AND KELLEY MOLTON

#### ■ PROJECT ADDRESS:

239 SEVILLA AVE EL GRANADA, CA 94018

**■ CONTACT INFORMATION** PHONE: (650)862-1113 EMAIL: scott.molton@gmail.com

#### APPROVAL

**OWNER/AGENT** 

**GENERAL CONTRACTOR** 

SUBCONTRACTOR

| 1 | PLANNING SUBMITTALS | 03/21/22 |
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REVISION/DESCRIPTION

# ■ SHEET TITLE:

**2019 CALIFORNIA GREEN BUILDING** STANDARD CODE

PLEASE VERIFY ALL DIMENSIONS AND REVIEW DETAILS AND NOTES FOR, BUT NOT LIMITED TO, CABINETS. PLUMBING. STRUCTURAL. AND

MEASUREMENTS. ANY AND ALL DIMENSIONAL DISPUTES SHALL BE BROUGHT TO THE DESIGNER'S

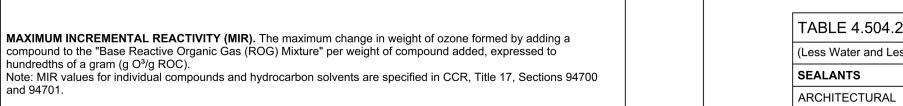
SCALE:

**ELECTRICAL COMPONENTS.** 

DESIGNER IS NOT RESPONSIBLE FOR INCORRECT AND/OR CONTRACTOR'S ATTENTION.

# 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 2



PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging). Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).

MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.

4.504 POLLUTANT CONTROL
4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING **CONSTRUCTION**. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to

4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.

reduce the amount of water, dust or debris which may enter the system.

- 4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality management district rules apply:
  - 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and tricloroethylene), except for aerosol products, as specified in Subsection 2 below.
  - 2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with section 94507.

**4.504.2.2 Paints and Coatings.** Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply.

4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation

4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification. 2. Field verification of on-site product containers.

| (Less Water and Less Exempt Compounds in Grams pe | er Liter) |  |
|---|-----------|--|
| ARCHITECTURAL APPLICATIONS VOC LIMIT              |           |  |
| NDOOR CARPET ADHESIVES                            | 50        |  |
| CARPET PAD ADHESIVES                              | 50        |  |
| OUTDOOR CARPET ADHESIVES                          | 150       |  |
| WOOD FLOORING ADHESIVES                           | 100       |  |
| RUBBER FLOOR ADHESIVES                            | 60        |  |
| SUBFLOOR ADHESIVES                                | 50        |  |
| CERAMIC TILE ADHESIVES                            | 65        |  |
| VCT & ASPHALT TILE ADHESIVES                      | 50        |  |
| DRYWALL & PANEL ADHESIVES                         | 50        |  |
| COVE BASE ADHESIVES                               | 50        |  |
| MULTIPURPOSE CONSTRUCTION ADHESIVE                | 70        |  |
| STRUCTURAL GLAZING ADHESIVES                      | 100       |  |
| SINGLE-PLY ROOF MEMBRANE ADHESIVES                | 250       |  |
| OTHER ADHESIVES NOT LISTED                        | 50        |  |
| SPECIALTY APPLICATIONS                            |           |  |
| PVC WELDING                                       | 510       |  |
| CPVC WELDING                                      | 490       |  |
| ABS WELDING                                       | 325       |  |
| PLASTIC CEMENT WELDING                            | 250       |  |
| ADHESIVE PRIMER FOR PLASTIC                       | 550       |  |
| CONTACT ADHESIVE                                  | 80        |  |
| SPECIAL PURPOSE CONTACT ADHESIVE                  | 250       |  |
| STRUCTURAL WOOD MEMBER ADHESIVE                   | 140       |  |
| TOP & TRIM ADHESIVE                               | 250       |  |
| SUBSTRATE SPECIFIC APPLICATIONS                   |           |  |
| METAL TO METAL                                    | 30        |  |
| PLASTIC FOAMS                                     | 50        |  |
| POROUS MATERIAL (EXCEPT WOOD)                     | 50        |  |
| WOOD  | 30        |  |
| FIBERGLASS  | 80        |  |

- 1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
- 2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

| (Less Water and Less Exempt Compounds in Grams per Liter) |           |  |
|---|-----------|--|
| Less water and Less Exempt Compounds in Gr                |           |  |
| SEALANTS  | VOC LIMIT |  |
| ARCHITECTURAL   | 250       |  |
| MARINE DECK   | 760       |  |
| NONMEMBRANE ROOF  | 300       |  |
| ROADWAY   | 250       |  |
| SINGLE-PLY ROOF MEMBRANE                                  | 450       |  |
| OTHER   | 420       |  |
| SEALANT PRIMERS   |           |  |
| ARCHITECTURAL   |           |  |
| NON-POROUS  | 250       |  |
| POROUS  | 775       |  |
| MODIFIED BITUMINOUS                                       | 500       |  |
| MARINE DECK   | 760       |  |
| OTHER   | 750       |  |

TABLE 4.504.3 - VOC CONTENT LIMITS FOR

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT

ARCHITECTURAL COATINGS23

COMPOUNDS

| COATING CATEGORY                          | VOC LIMIT |
|---|-----------|
| FLAT COATINGS                             | 50        |
| NON-FLAT COATINGS                         | 100       |
| NONFLAT-HIGH GLOSS COATINGS               | 150       |
| SPECIALTY COATINGS                        |           |
| ALUMINUM ROOF COATINGS                    | 400       |
| BASEMENT SPECIALTY COATINGS               | 400       |
| BITUMINOUS ROOF COATINGS                  | 50        |
| BITUMINOUS ROOF PRIMERS                   | 350       |
| BOND BREAKERS                             | 350       |
| CONCRETE CURING COMPOUNDS                 | 350       |
| CONCRETE/MASONRY SEALERS                  | 100       |
| DRIVEWAY SEALERS                          | 50        |
| DRY FOG COATINGS                          | 150       |
| FAUX FINISHING COATINGS                   | 350       |
| FIRE RESISTIVE COATINGS                   | 350       |
| FLOOR COATINGS                            | 100       |
| FORM-RELEASE COMPOUNDS                    | 250       |
| GRAPHIC ARTS COATINGS (SIGN PAINTS)       | 500       |
| HIGH TEMPERATURE COATINGS                 | 420       |
| INDUSTRIAL MAINTENANCE COATINGS           | 250       |
| LOW SOLIDS COATINGS1                      | 120       |
| MAGNESITE CEMENT COATINGS                 | 450       |
| MASTIC TEXTURE COATINGS                   | 100       |
| METALLIC PIGMENTED COATINGS               | 500       |
| MULTICOLOR COATINGS                       | 250       |
| PRETREATMENT WASH PRIMERS                 | 420       |
| PRIMERS, SEALERS, & UNDERCOATERS          | 100       |
| REACTIVE PENETRATING SEALERS              | 350       |
| RECYCLED COATINGS                         | 250       |
| ROOF COATINGS                             | 50        |
| RUST PREVENTATIVE COATINGS                | 250       |
| SHELLACS                                  |           |
| CLEAR                                     | 730       |
| OPAQUE                                    | 550       |
| SPECIALTY PRIMERS, SEALERS & UNDERCOATERS | 100       |
| STAINS                                    | 250       |
| STONE CONSOLIDANTS                        | 450       |
| SWIMMING POOL COATINGS                    | 340       |
| TRAFFIC MARKING COATINGS                  | 100       |
| TUB & TILE REFINISH COATINGS              | 420       |
| WATERPROOFING MEMBRANES                   | 250       |
| WOOD COATINGS                             | 275       |
| WOOD PRESERVATIVES                        | 350       |
| ZINC-RICH PRIMERS                         | 340       |

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS

ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE. 3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

| TABLE 4.504.5 - FORMALDEHYDE LIMITS <sub>1</sub> |                   |  |
|--|-------------------|--|
| MAXIMUM FORMALDEHYDE EMISSIONS IN PA             | RTS PER MILLION   |  |
| PRODUCT  | CURRENT LIMIT     |  |
| HARDWOOD PLYWOOD VENEER CORE                     | 0.05              |  |
| HARDWOOD PLYWOOD COMPOSITE CORE                  | 0.05              |  |
| PARTICLE BOARD                                   | 0.09              |  |
| MEDIUM DENSITY FIBERBOARD                        | 0.11              |  |
| THIN MEDIUM DENSITY FIBERBOARD2                  | 0.13              |  |
| 1 MALLIES IN THIS TABLE ARE DEDIVED EDOI         | M THOSE SPECIFIED |  |

**Exception:** Use of alternate design temperatures necessary to ensure the system functions are acceptable.

NOT APPLICABLE

**CHAPTER 7** 

**702 QUALIFICATIONS** 

State certified apprenticeship programs.

4. Programs sponsored by manufacturing organizations.

performance contractors, and home energy auditors.

4. Other programs acceptable to the enforcing agency.

project they are inspecting for compliance with this code.

the appropriate section or identified applicable checklist.

**703 VERIFICATIONS** 

5. Other programs acceptable to the enforcing agency.

2. Public utility training programs.

**INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS** 

**702.1 INSTALLER TRAINING.** HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or

Examples of acceptable HVAC training and certification programs include but are not limited to the following:

**702.2 SPECIAL INSPECTION [HCD].** When required by the enforcing agency, the owner or the

Successful completion of a third party apprentice training program in the appropriate trade.

homes in California according to the Home Energy Rating System (HERS).

[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall

this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the

employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with

particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a

recognized state, national or international association, as determined by the local agency. The area of certification

Note: Special inspectors shall be independent entities with no financial interest in the materials or the

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not

limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other

documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in

methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific

considered by the enforcing agency when evaluating the qualifications of a special inspector:

project they are inspecting for compliance with this code.

shall be closely related to the primary job function, as determined by the local agency.

1. Certification by a national or regional green building program or standard publisher.

responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or

other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to

other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be

2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building

1. Special inspectors shall be independent entities with no financial interest in the materials or the

2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate

certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems.

Training programs sponsored by trade, labor or statewide energy consulting or verification organizations

P.O. BOX 3535 HALF MOON BAY, CA 94019 650 . 743 . 8743

DESIGN | CONSULTING

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### ■ PROJECT:

MOLTON GARAGE ADDITION AND ROOF CONVERSION

### ■ OWNER:

SCOTT AND KELLEY MOLTON

# ■ PROJECT ADDRESS:

239 SEVILLA AVE EL GRANADA, CA 94018

**■ CONTACT INFORMATION** PHONE: (650)862-1113 EMAIL: scott.molton@gmail.com

### APPROVAL

OWNER/AGENT

**GENERAL CONTRACTOR** 

**SUBCONTRACTOR** 

| NO. | REVISION/DESCRIPTION | DAII   |
|-----|----------------------|--------|
| 1   | PLANNING SUBMITTALS  | 03/21/ |
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DEVISION/DESCRIPTION

## SHEET TITLE:

**2019 CALIFORNIA GREEN BUILDING** STANDARD CODE

SCALE:

PLEASE VERIFY ALL DIMENSIONS AND REVIEW DETAILS AND NOTES FOR, BUT NOT LIMITED TO. CABINETS, PLUMBING, STRUCTURAL, AND **ELECTRICAL COMPONENTS.** 

