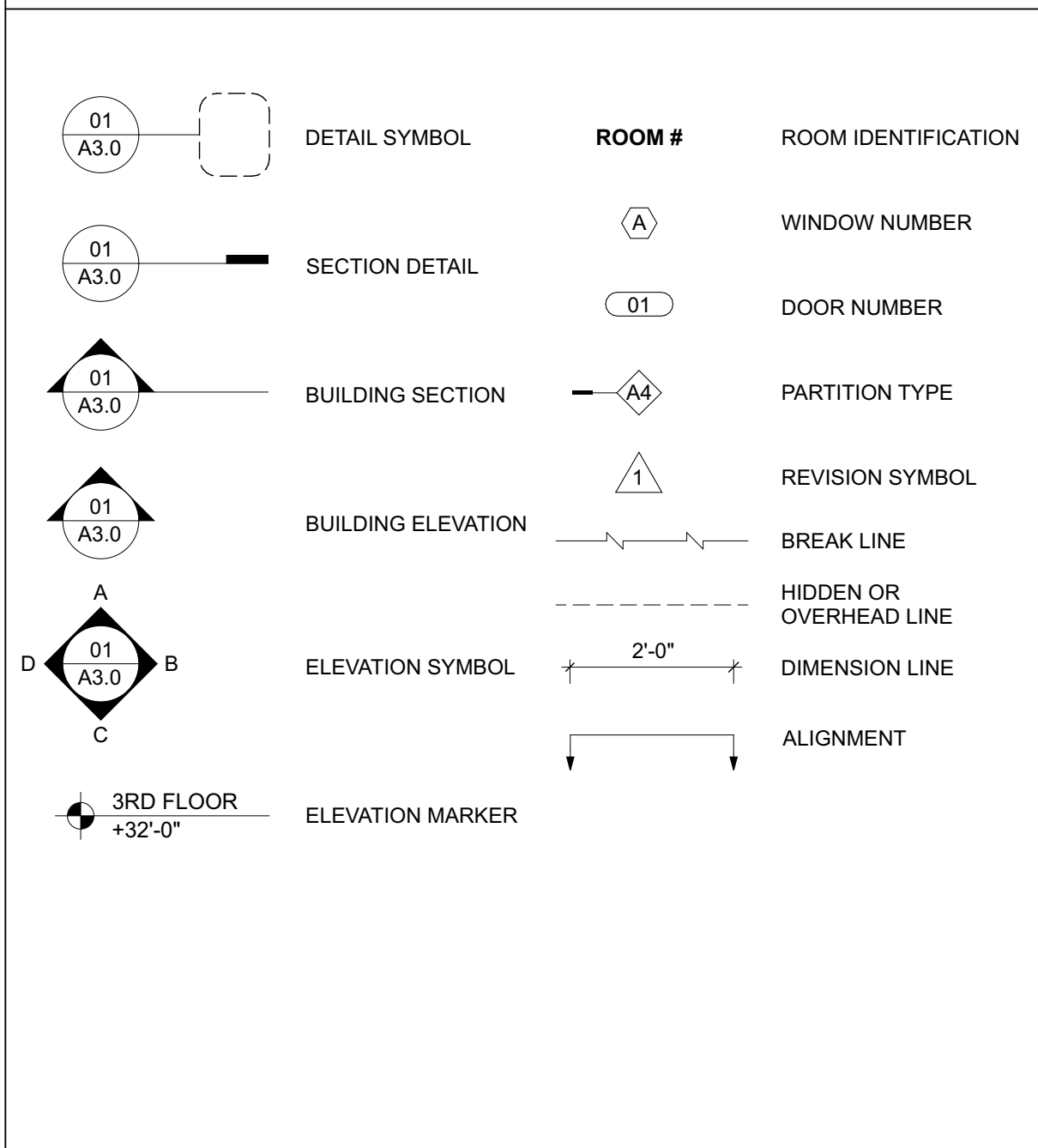


ABBREVIATIONS

Table of abbreviations for construction terms, including AB (Anchor Bolt), AC (Air Conditioning), and others.

SYMBOLS



GENERAL NOTES

- 1. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE PREMISES AND SHALL BASE HIS BID ON THE EXISTING CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE ACTUAL FIELD CONDITIONS.

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PROJECT TEAM

PROPERTY OWNER: NEVADA COUNTY, 950 MAIDU AVENUE, NEVADA CITY CA 95959. PROJECT OWNER: AMI HOUSING, INC. ARCHITECT: RUSSELL DAVIDSON ARCHITECTURE + DESIGN. CIVIL ENGINEER: MILLENIUM ENGINEERING. STRUCTURAL ENGINEER: ASHLEY & VANCE ENGINEERING. MECHANICAL, ELECTRICAL & PLUMBING ENGINEER: OPTIMIZED ENERGY AND FACILITIES CONSULTING.

APPLICABLE CODES

ALL CODES REFERENCED ARE TO BE USED AS AMENDED BY THE STATE OF CALIFORNIA AND LOCAL JURISDICTION. 2025 CALIFORNIA RESIDENTIAL BUILDING CODE, 2025 CALIFORNIA MECHANICAL CODE, 2025 CALIFORNIA ELECTRICAL CODE, 2025 CALIFORNIA PLUMBING CODE, 2025 CALIFORNIA GREEN BUILDING CODE, 2025 CALIFORNIA FIRE CODE, 2025 CALIFORNIA ENERGY CODE.

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PROJECT DATA

SITE DATA: ADDRESS 13668 AUBURN ROAD, GRASS VALLEY, CA 95949. WIND EXPOSURE: C. CLIMATE ZONE: 11. ZONING: RA-3. SITE AREA: 2.0 ACRES (87,120 SF). BUILDING ANALYSIS: OCC. GROUP: R-3. CONST. TYPE: V-B. FIRE SPRINKLERS: NONE. AREAS: GARAGE: 576 SF, (N) REAR DECK: 180 SF, (N) FRONT WALKWAY: 301 SF.

SCOPE OF WORK

PROJECT CONSISTS OF THE FOLLOWING WORK: RENOVATION TO EXISTING FIVE SINGLE OCCUPANCY BEDROOM RESIDENCE. CONSTRUCT NEW EXTERIOR DECK AND WALKWAYS. REPLACE EXISTING HVAC UNIT. CONSTRUCT NEW KITCHEN ON 1ST FLOOR TO REPLACE EXISTING KITCHEN. REMOVE EXISTING KITCHEN ON 2ND FLOOR. INSTALL NEW EXTERIOR WINDOWS THROUGHOUT.

DEFERRED SUBMITTALS

THE FOLLOWING SUBMITTALS WILL BE DEFERRED:

SPECIAL INSPECTIONS

THE FOLLOWING SPECIAL INSPECTIONS ARE REQUIRED:

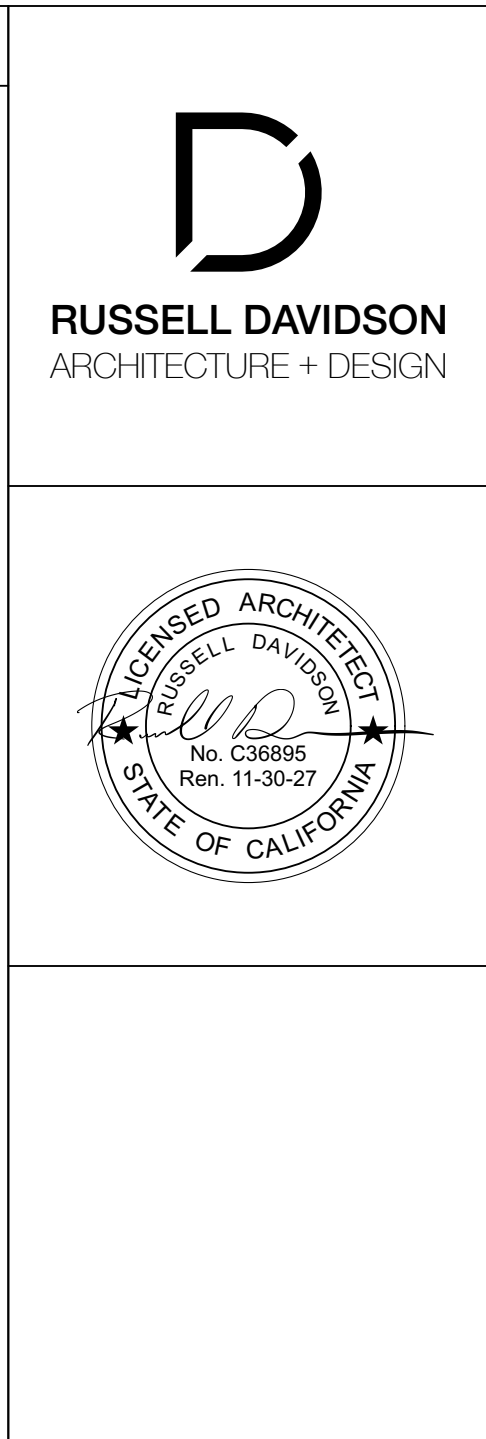
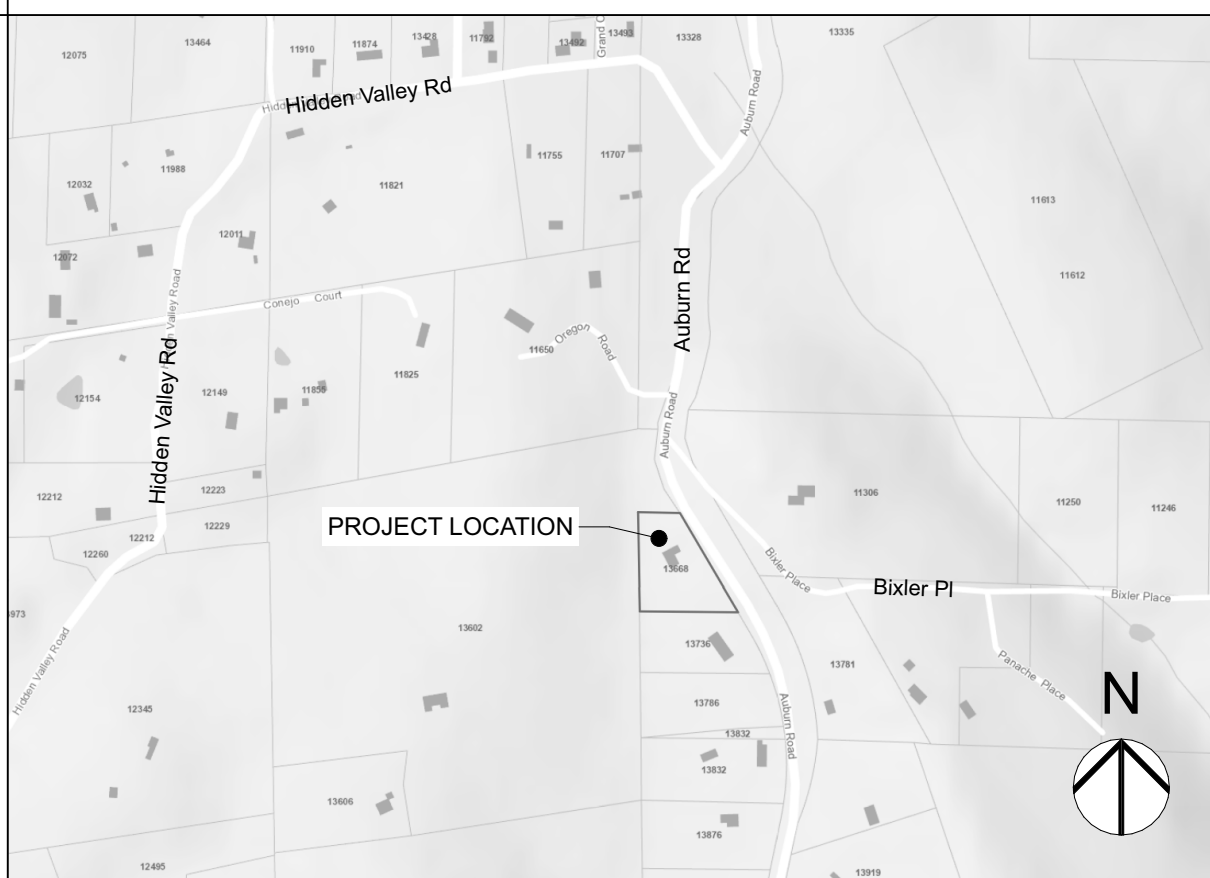
SHEET INDEX

Table listing sheet titles and general notes, including T1.0 TITLE SHEET, G1.0 GENERAL NOTES, CGBSC, CIVIL, FLOOR PLANS, EXTERIOR ELEVATIONS, ENLARGED PLANS, INT ELEVATIONS, WALL SECTIONS, DETAILS, SCHEDULES & DIAGRAMS, STRUCTURAL, PLUMBING, MECHANICAL, ENERGY CALCULATIONS, ELECTRICAL.

SHEET INDEX

REVIEWED FOR CODE COMPLIANCE with County of Nevada Building Regulation Ordinance & current California Codes. The stamping of this plan and specifications SHALL NOT be held to permit or to be an approval of violation of any County Ordinance or State Law. County of Nevada Building Department. Monte Gillan, May 11, 2026, 4:00 pm. Authorized Signature. These plans shall be kept on the premises and accessible to the inspector at all times. SUBJECT TO FIELD INSPECTION. Plans shall reflect the scope of work of the project. Any changes or deviations must be submitted and reviewed by the Building Department prior to inspection.

VICINITY MAP



AUBURN RESIDENCE. 13668 AUBURN ROAD, GRASS VALLEY, CA 95949. APN: 023-010-001-000.

Table with columns ID, NAME, DATE. Row 1: 1, REV 1, 4/29/26.

Table with columns SUBMITTED, DATE, SCALE, AS NOTED, DRAWN BY, GTB, CHECKED BY, RPD, JOB, 2025 33.

TITLE SHEET. JOB SET. T1.0



GENERAL NOTES

JOB SET

G1.0

General notes based on the 2025 California Building Standard Codes. This is not an all inclusive list of code requirements specific to the project. Reference applicable sheets and specific areas of the plans for locations of fixtures/equipment, structural components, structural design criteria, building finishes and other components specific to the project construction.

150.0(k)(1):
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, walk-in closet, 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). (California Energy Code 150.0(k)(2))

Lighting in habitable spaces, including but not limited to living rooms, dining rooms, kitchens and bedrooms, shall have readily accessible dimming controls. (California Energy Code 150(k)(5) 2f)

Joint Appendix A (JA8) certified lamps shall be considered high efficiency. JA8 compliant light sources shall be controlled by a vacancy sensor or dimmer. (Exception: <70sf closets and hallway) (California Energy Code 150.0(k)(2))

Under-cabinet lighting shall be switched separately from other lighting systems. (California Energy Code 150.0(k)(3))

All exterior lighting shall be high efficiency, 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 efficiency light fixtures shall be certified as "high-efficiency" light fixtures by the California Energy Commission.

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. (California Energy Code 150(k)(18))

Provide a gasket/ insulation on all interior attic/under-floor accesses. (California Energy Code 150.7)

WILDLAND URBAN INTERFACE (WUI)
Exterior wall coverings shall be noncombustible, ignition resistant, heavy timber, log wall or fire resistive construction. (CWUIC 504.5.2)

Exterior wall coverings shall extend from the foundation to the roof and terminate at 2 inch nominal solid blocking between rafters and overhangs. (CWUIC 504.5.2.1)

Open/enclosed roof eaves and soffits, exterior porch ceilings, floor projections, under-floor areas and undersides of appendages to comply with ignition resistant construction requirements. (CWUIC 504.3, 504.7)

Facia boards shall be of ignition resistant material or minimum 2x. (CWUIC 504.3)

Spaces created between roof coverings and roof decking shall be fire stopped by approved materials or have one layer of minimum 7/16 mineral surfaced non-perforated cap sheet complying with ASTM D 3909. (CWUIC 504.2.2.1)

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 7/16 mineral surfaced non-perforated cap sheet complying with ASTM D 3909 and at least 36 inches wide running the full length. (CWUIC 504.2.2)

All vents are required to resist building ignition from the intrusion of flame and burning embers through the ventilation openings including crawlspace vents, gable end vents, eave vents, etc. Exception: Ridge vents and vents installed in a sloped roof. (CWUIC 504.10.2)

Ridge vents and vents in roof decks to be noncombustible and corrosion resistant. (CWUIC 504.10.2)

Gable end and dormer vents shall be located not less than 10 feet from property lines. (CWUIC 504.10.5)

Underfloor ventilation openings shall be located as close to grade as practical. (CWUIC 504.10.3)

Indicate on plans exterior glazing shall have a minimum of one-tempered pane, glass block, have a fire resistive rating of 30 minutes or be tested to meet performance requirements of SFM Standard 12-7A-2. (CWUIC 504.8)

Operable skylights shall be protected by a noncombustible mesh screen 1/8" max openings (CWUIC 504.8.2)

Exterior doors including garage doors shall be noncombustible, ignition resistant 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 12-7A-1. (CWUIC 504.9)

Garage door perimeter gap maximum 1/8". Metal flashing, jamb and header overlap, and weather-stripping meeting section requirements are permitted. (CWUIC 504.9.2)

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. (CWUIC 504.7.3)

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 408.4.2)

Provide anti-siphon valves on all hose bibs. (CPC 603.5.7)

Floor drains shall be provided with a trap primer. (CPC 11007)

Added new trap arm maximum lengths. (CPC Table 1000.2)

Gas piping on roofs shall be elevated minimum 3-1/2" above roof surface. (CPC 1210.3.5.3)

MECHANICAL

Wood burning appliances shall not be installed in a new or existing project that is not one of the following:

A pellet-fueled wood burning heater.

A U.S. EPA Phase II Certified wood burning heater.

An appliance or fireplace determined to meet the U.S. EPA particulate matter emission 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 writing by the APCO.

All newly installed gas fireplaces shall be direct vent and sealed-combustion type. (CMC 912.3)

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 emission limits.

Pre-fab fireplaces require manufacturer specifications, model and UL Laboratories certification. 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. (California Energy Code 150.0(e))

Provide combustion air for all gas fired appliances per CMC Chapter 7.

Masonry chimneys and fireplaces shall be constructed per CRC Chapter 10. Provide details and notes on the plans for the construction, foundation, seismic reinforcement, seismic anchorage, firebox dimensions, etc.

Gas water heater and furnace are not allowed in areas opening into bathrooms, closets or bedrooms unless 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 N"-1/2" in opening size (not required for clothes dryers). (CMC 502.1)

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)

Provide minimum 100 square inches make-up air for clothes dryers installed in closets. (CMC 504.4.1(1))

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)

Length of Passageway in Attic: Where the height of the passageway is 6' or more, the distance from the passageway access to the appliance shall not exceed 50' measured along the centerline of the passageway

TITLE 24 ENERGY
Provide compliance documentation for mandatory measures to shown throughout the plans. All ducts in conditioned spaces must include R-4.2 insulation. (California Energy Code 150.1(c)(9)) Minimum heating and cooling filter ratings shall be MERV 13. (California Energy Code 150.0(m) 12)

Isolation water valves required for instantaneous water heaters 6.8&8TU/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. (California Energy Code 110.3(c)(6))

Energy storage system (ESS) ready. At least one of the following shall be provided:
ESS ready interconnection equipment with a minimum backed-up capacity of 60 amps and a minimum of four ESS-supplied branch circuits, or
A dedicated raceway from the main service panel to a panelboard (subpanel) that supplies the following branch circuits: refrigerator, lighting circuit near primary egress door, sleeping room receptacle and one additional.

The main panelboard shall have a minimum busbar rating of 225 amps. Space shall be reserved to allow future installation of a system isolation equipment/transfer switch within 3 feet of the main panelboard. Raceways shall be installed between the panelboard and the system isolation equipment to allow the connection of backup power source. (California Energy Code 150.0(l))

Heat pump space heater ready. Systems using a gas or propane furnace shall include a dedicated 240 volt branch circuit with 3 feet of the furnace. The branch circuit shall be rated at 30 amps minimum. The main electrical service shall have a reserved space to allow for the installation of a double pole circuit breaker. The reserved space shall be permanently marked as "For future 240V use". (California Energy Code 150.0(i))

Electric cooktop ready. Systems using a gas or propane cooktop shall include a dedicated 240 volt branch circuit with 3 feet of the cooktop. The branch circuit shall be rated at 50 amps minimum. The main electrical service shall have a reserved space to allow for the installation of a double pole circuit breaker. The reserved space shall be permanently marked as "For future 240V use". (California Energy Code 150.0(i))

Electric cooktop ready. Systems using a gas or propane furnace shall include a dedicated 240 volt branch circuit with 3 feet of the furnace. The branch circuit shall be rated at 30 amps minimum. The main electrical service shall have a reserved space to allow for the installation of a double pole circuit breaker. The reserved space shall be permanently marked as "For future 240V use". (California Energy Code 150.0(i))

Electrical clothes dryer ready. Systems using a gas or propane dryer shall include a dedicated 240 volt branch circuit with 3 feet of the clothes dryer. The branch circuit shall be rated at 30 amps minimum. The main electrical service shall have a reserved space to allow for the installation of a double pole circuit breaker. The reserved space shall be permanently marked as "For future 240V use". (California Energy Code 150.0(i))

ALL luminaires must be high efficiency. (California Energy Code 150.0(k)(A))

Luminaries recessed in insulated ceilings must meet five requirements (California Energy Code

have a receptacle in hallways. (CEC 210.52(A))

Receptacles installed Around Tub or Shower Spaces – 406.9(C) This change clarifies that the zone restricting the location of receptacles around a tub or shower space does not include those spaces separated by a floor, wall, ceiling, room door, window, or fixed barrier. The 2020 NEC extended the zone 3 feet beyond the bathtub rim or shower stall threshold.

Stairways with 6 or more risers shall have wall switch at each floor level at the stair landings. (CEC 210.70(A)(2))

Receptacles shall not be installed within or directly over a bathtub or shower stall. (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))

All lighting/fan fixtures located in wet or damp locations shall be rated for the application. (CEC 410.10)

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 5' of a laundry/utility/wet bar bar sinks, indoor damp locations, mud rooms, finished basements, laundry areas, and in all garage outlets including outlets dedicated to a single device or garage door opener. (CEC 210.8)

Carbon-monoxide alarms shall be installed in dwelling units with fuel-burning appliances or with attached garages (CRC R311):
Outside of each separate sleeping area in the immediate vicinity of bedrooms
On every level of a dwelling unit including basements

Where a fuel-burning appliance is located within a bedroom, a carbon monoxide detector shall be installed in the bedroom.
Alterations, repairs, or additions exceeding 1,000 dollars (May be battery operated)

Smoke alarms shall be installed (CRC R310):
In each room used for sleeping purposes.
Outside of each separate sleeping area in the immediate vicinity of bedrooms.
In each story, including basements.

At the top of stairways between habitable floors where an intervening door or obstruction prevents smoke from reaching the smoke detector.

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 (R314.3(A)).

Within a room to which a sleeping loft is open, in the immediate vicinity of the sleeping loft.
Alterations, repairs, or additions exceeding 1,000 dollars. (May be battery operated.)

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)

Smoke detectors within 10 feet to 20 feet of the stove shall be ionization type with alarm silencing switch. (CRC R314.3.3)

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))

ENERGY STORAGE SYSTEMS
Energy storage systems shall be installed per minimum code standards. (CRC R330) See the ESS handbook for more details.

PLUMBING

Underfloor cleanouts shall not be more than 5' from an underfloor access, access door or trap door. (CPC 707.9)

Kitchen sinks require a cleanout above the floor level of the lowest floor of the building.

ABS piping shall not be exposed to direct sunlight unless protected by water based synthetic latex paints. (CPC 906.1)

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. (CPC 906.1)

Underground water supply lines shall have a 14 awg blue tracer wire. (CPC 604.10.1)

The entire floor space in a room containing a shower 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 408.7) Provide curtain rod or door a minimum of 22" in width (CPC 408.5). Showers and tubs with showers require a non-absorbent surface up to 6" above the floor. (CRC R307.2) Minimum shower receptor slope is 1/8" per foot. (CPC 408.5)

Curbless showers require a 2" temporary barrier for testing. (CPC 408.8.5)

Water heaters using gas or propane shall designate a space 2.5 feet by 2.5 feet and 7 feet tall suitable for future installation of a heat pump water heater. Additional features are required. (California Energy Code 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 diameter. (CPC 609.12)

A 3-inch gravity propane 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 corrosion-resistant 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. (Nevada County Code Section 14.08.090)

Water heaters located in attics, ceiling assemblies and raised floor assemblies shall show a water-tight corrosion resistant minimum 1" x 3" deep pan under the water heater with a minimum 1/8 inch drain to the exterior of the building. (CPC 507.5)

Rain gutters and downspouts to be installed for projects below 4,000ft elevation. Clearly show/note that approved leaf/debris guards will be installed on all gutters.

Water closets 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)

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 lateral forces according to CRC Table 301.5.

Flashing must extend vertically 2" above the ledger and 4" horizontal beyond the ledger face. (CRC R507.9.1.3)

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 (DTT12 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 weather. (CRC R304.1(8))

Hardware and fasteners to be hot-dipped galvanized, stainless steel, silicon bronzed or copper. (CRC R304.3)

ELECTRICAL

Never install electrical panels in closets or bathrooms. Maintain a clearance of 36" inches in front of panels, 30" wide or width of equipment and 6'-6" high for headroom. (CEC 110.26)

All services supplying dwelling units shall be provided a surge protection device. The SPD shall be an integral part of the service equipment or shall be located immediately adjacent thereto. (CEC 230.67)

Provide a minimum 3 lug intersystem bonding busbar at the main electrical service. (CEC 250.94)

Provide a four-wire feed (two ungrounded conductors, one grounded conductor and an equipment grounding conductor) to all detached structures.

Provide electrical service load calculations for dwellings over 3,000 sq. ft. services 400 amperes or greater or as determined by the Plans Examiner.

All automatic garage door openers that are installed in a residence shall have a battery backup function that is designed to operate when activated because of an electrical outage. (CPC 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 15/20 ampere receptacles installed per CEC 210.52 including attached and detached garages and accessory buildings shall be listed tamper-resistant receptacles. (CEC 406.12)

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 combination type arc-fault circuit interrupter. (CEC 210.12)

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. (CEC 210.11(C)(3))

GFCIs for Specific Appliances – 210.8(D) This change expands the requirement for GFCI-protected branch circuits or outlets to include those serving electric ranges, wall-mounted ovens, counter-mounted cooking units, clothes dryers and microwave ovens, no matter where they are located.

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) & (G))

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 the furnace. (CEC 210.63)

All dwellings must have one exterior outlet at the front and the back of the dwelling. (CEC 210.52(E))

Provide a minimum of one 20A circuit for attached and detached garage outlets. The circuit shall supply no other receptacle outlet. 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)(1))

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 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)) 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))

Receptacles on Kitchen Islands and Peninsulas – 210.52(C)(2) This change removes the requirement for providing receptacles to serve countertops and work surfaces on kitchen islands and peninsulas but requires undefined provisions for a future receptacle if none are provided. This section previously required one or more receptacles to serve islands and peninsulas based on their countertop area.

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. Halfway walls longer than 10 ft shall

shall be 4x material minimum and steel columns shall be schedule 40, 3" in diameter minimum. (CRC R407.3) Toenailing of posts to pier blocks no longer allowed under floor areas.

CLEARANCES AND TREATMENT FOR WOOD FRAMING

All joists, girders, ledgers, structural blocking and support posts/column shall be wood of natural resistance to decay or pressure-treated lumber when exposed to the weather. (CRC R04)

Columns in basements when in contact with basement slabs or metal pedestals shall be pressure treated or natural resistance to decay unless the pier/pedestals project 1" above concrete or 8" above earth. (CRC R304)

Columns in enclosed crawl spaces or unenclosed 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. (CRC R304)

FLOORS

Under-floor areas with storage, fuel-fired equipment or electric-powered equipment with less than 2x10 solid joists or composite lumber of equal or greater cross-sectional area shall be protected on the underside by half-inch sheetrock or a sprinkler system. (R302.13)

Balconies and decks must be designed for a minimum live load of 60lbs per square foot. (CRC T-R301.5)

WALLS

Specify post to beam connections. Positive connection shall be provided to ensure against uplift and lateral displacement. (CRC R502.9 & CRC 2304.10.7)

All fasteners used for attachment of siding & into pressure treated lumber shall be of a corrosion resistant type. (CRC 304.3)

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 under stucco and 2 layers of 15lb felt (or equivalent) under stone veneer.

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

Show minimum 22" x 30" access opening to attic (CRC R807); may be required to be 30"x30" to remove the largest piece of mechanical equipment per the California Mechanical Code. Ceiling at attic access must be 30" measured from bottom of roof rafters to top of ceiling joists.

Provide adequate roof slope (minimum X inch per 12 inches) for roof drainage. Roof drains/gutters required to be installed per the California Plumbing Code with leaf/debris protection also installed.

Asphalt shingles with sloped roofs 2/12 to 4/12 shall have two layers of underlayment applied per CRC R905.2.2.

GARAGE AND CARPORT

Garage shall be separated from the dwelling unit & attic area by 1/2 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 have fire sprinklers installed per R317.6 and R309, doors into the dwelling unit from the garage only need to be self-closing and self-latching. (CRC R302.5.1 & T-R302.6)

Ducts penetrating the garage to dwelling separation shall be a minimum of 26 gauge with no openings into the garage. (CRC R302.5.2)

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 R317.1)

Appliances and receptacles installed in garage generating a glow, spark or flame shall 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 305.1.1)

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)

STAIRWAYS & RAMPS

Stair landings required every 127" of vertical rise. (CRC R318.7.3)

Exterior stair stringers must be naturally resistant to decay or pressure treated. (CRC R304.1)

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 permitted, provided the opening between the treads does not permit the passage of a 4" sphere. (



2025 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 1



Table with 3 columns: Y, N/A, RESPON. PARTY. Contains sections for CHAPTER 3 GREEN BUILDING, SECTION 301 GENERAL, 301.1 SCOPE, 301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS, SECTION 302 MIXED OCCUPANCY BUILDINGS, 302.1 MIXED OCCUPANCY BUILDINGS, DIVISION 4.1 PLANNING AND DESIGN, ABBREVIATION DEFINITIONS, CHAPTER 4 RESIDENTIAL MANDATORY MEASURES, SECTION 4.102 DEFINITIONS, 4.102.1 DEFINITIONS, FRENCH DRAIN, WATTLES, 4.106 SITE DEVELOPMENT, 4.106.1 GENERAL, 4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION, 4.106.3 GRADING AND PAVING, 4.106.4 Electric vehicle (EV) charging for new construction.

Table with 3 columns: Y, N/A, RESPON. PARTY. Contains sections for 4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities, 4.106.4.2.1 Reserved, 4.106.4.2.2 Multifamily dwellings, hotels and motels, 1. EV ready parking spaces with receptacles, a. Multifamily parking facilities with assigned parking, b. Multifamily parking facilities with unassigned parking, 3. Multifamily parking facilities with assigned and unassigned parking, d. Receptacle power source, e. Receptacle configurations, 2. EV ready parking spaces with EV chargers, a. Multifamily parking facilities with unassigned or common use parking, b. EV charger connectors, c. An automatic load management system (ALMS) may be used to reduce the maximum required electrical capacity to each space served by the ALMS, 4.106.4.2.2.1 Electric vehicle charging stations (EVCS), 4.106.4.2.2.1.1 Electric vehicle charging stations (EVCS) spaces with EV chargers installed; dimensions and location, EVCS spaces shall be designed to comply with the following, 4.106.4.2.2.1.2 Accessible electric vehicle charging station spaces, 4.106.4.2.3 Reserved, 4.106.4.2.4 Reserved, 4.106.4.2.5 Electric vehicle ready space signage, 4.106.4.2.6 Hotels and motels, 1. EV ready parking spaces with receptacles, a. Hotels and motels, b. Receptacle configurations, 2. EV ready parking spaces with EV chargers, a. Hotels and motels, b. EV charger connectors.

Table with 3 columns: Y, N/A, RESPON. PARTY. Contains sections for 4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multi-family buildings, hotels and motels, 4.106.4.4 Bicycle parking, 4.106.4.4.1 Short-term bicycle parking for multifamily buildings, hotels and motels, 4.106.4.4.2 Long-term bicycle parking for multifamily buildings, 4.106.4.4.3 Long-term bicycle parking for hotel and motel buildings, DIVISION 4.2 ENERGY EFFICIENCY, 4.201 GENERAL, 4.201.1 SCOPE, DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION, 4.303 INDOOR WATER USE, 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS, 4.303.1.1 Water Closets, 4.303.1.2 Urinals, 4.303.1.3 Showerheads, 4.303.1.3.1 Single Showerhead, 4.303.1.3.2 Multiple showerheads serving one shower, 4.303.1.4 Faucets, 4.303.1.4.1 Residential Lavatory Faucets, 4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas, 4.303.1.4.3 Metering Faucets, 4.303.1.4.4 Kitchen Faucets, 4.303.1.4.5 Pre-rinse spray valves, 4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential/commercial buildings, 4.303.3 Standards for plumbing fixtures and fittings, 4.304 OUTDOOR WATER USE, 4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS, NOTES.

Table with 3 columns: Y, N/A, RESPON. PARTY. Contains sections for DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE, 4.406.1 ROBERT PROOFING, 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING, 4.408.1 CONSTRUCTION WASTE MANAGEMENT, 4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN, 4.408.3 WASTE MANAGEMENT COMPANY, 4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR], 4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE, 4.408.5 DOCUMENTATION, 4.410 BUILDING MAINTENANCE AND OPERATION, 4.410.1 OPERATION AND MAINTENANCE MANUAL, 4.410.2 RECYCLING BY OCCUPANTS, DIVISION 4.5 ENVIRONMENTAL QUALITY, SECTION 4.501 GENERAL, 4.501.1 Scope, SECTION 4.502 DEFINITIONS, 5.102.1 DEFINITIONS, AGRIFIBER PRODUCTS, COMPOSITE WOOD PRODUCTS, DIRECT-VENT APPLIANCE.

AUBURN RESIDENCE
13668 AUBURN ROAD
GRASS VALLEY, CA 95949
APN: 023-010-001-000

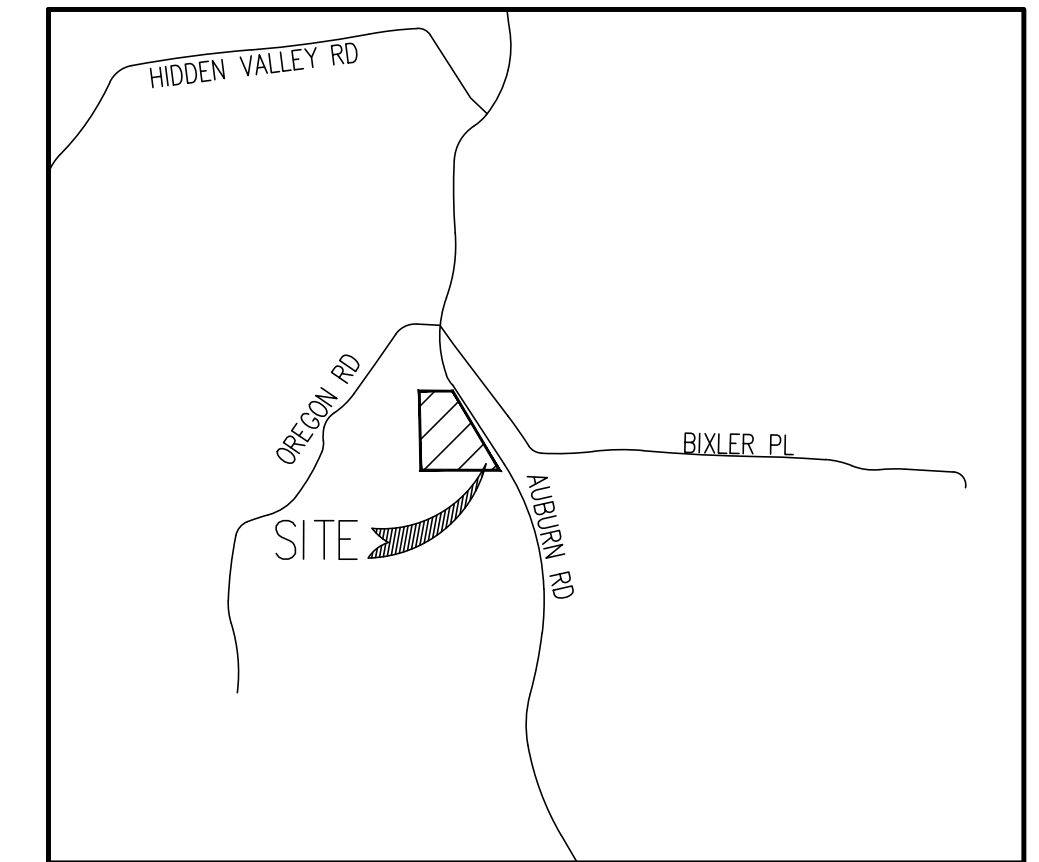
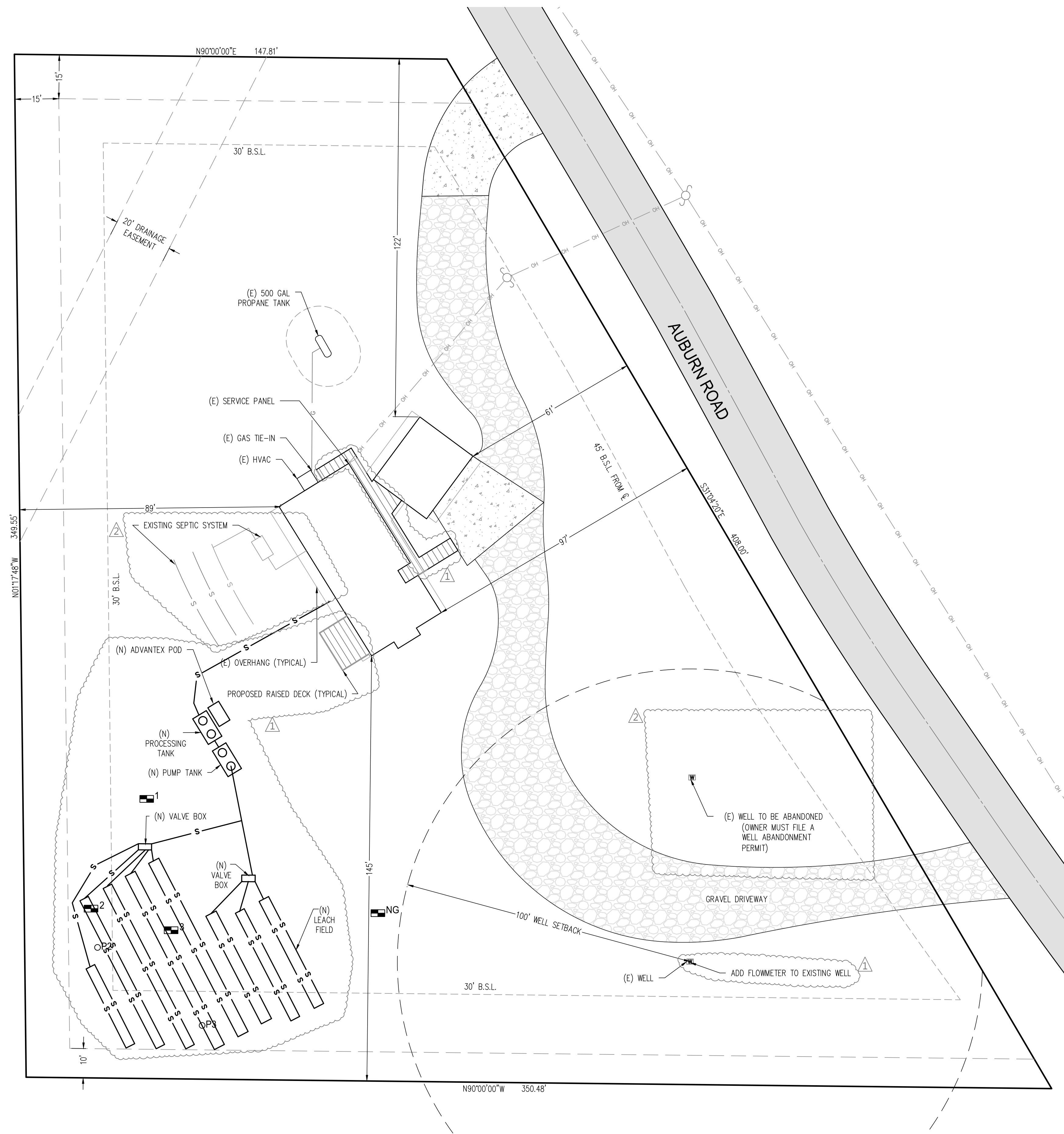
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CGBCS

JOB SET

G2.0

LEGEND	
	PROPERTY LINE
	BUILDING SETBACK LINE (B.S.L.)
	EASEMENT PER 03 SUB 003
	EXISTING ASPHALT
	EXISTING CONCRETE
	PROPANE SETBACK LINE
	EXISTING GAS LINE
	EXISTING OVERHEAD ELECTRICAL SERVICE
	EXISTING UTILITY POLE
	EXISTING WELL
	PROPOSED SEPTIC SYSTEM (DESIGNED BY OTHERS)
	MANTLE TEST LOCATION
	PERCOLATION HOLE LOCATION



VICINITY MAP
NTS

PROJECT INFORMATION	
APPLICANT	NEVADA COUNTY - HOUSING AND COMMUNITY SERVICES 950 MADU AVE NEVADA CITY, CA 95959 (530) 265-1625 CONTACT: ERIC ZIBBEL
CIVIL ENGINEERING	MILLENNIUM PLANNING & ENGINEERING 159 S. AUBURN STREET GRASS VALLEY, CALIFORNIA 95945 (530) 446-6765 CONTACT: MICHELLE LAYSHOT, P.E.
SITE ADDRESS	13668 AUBURN ROAD GRASS VALLEY, CA 95949
APN	023-010-001
SITE AREA	2.0 ACRES
ZONING	RA

Impervious Surface not to exceed 30%

Planning Department approval
per Susan McLendon

SITE PLAN
SCALE: 1" = 20'

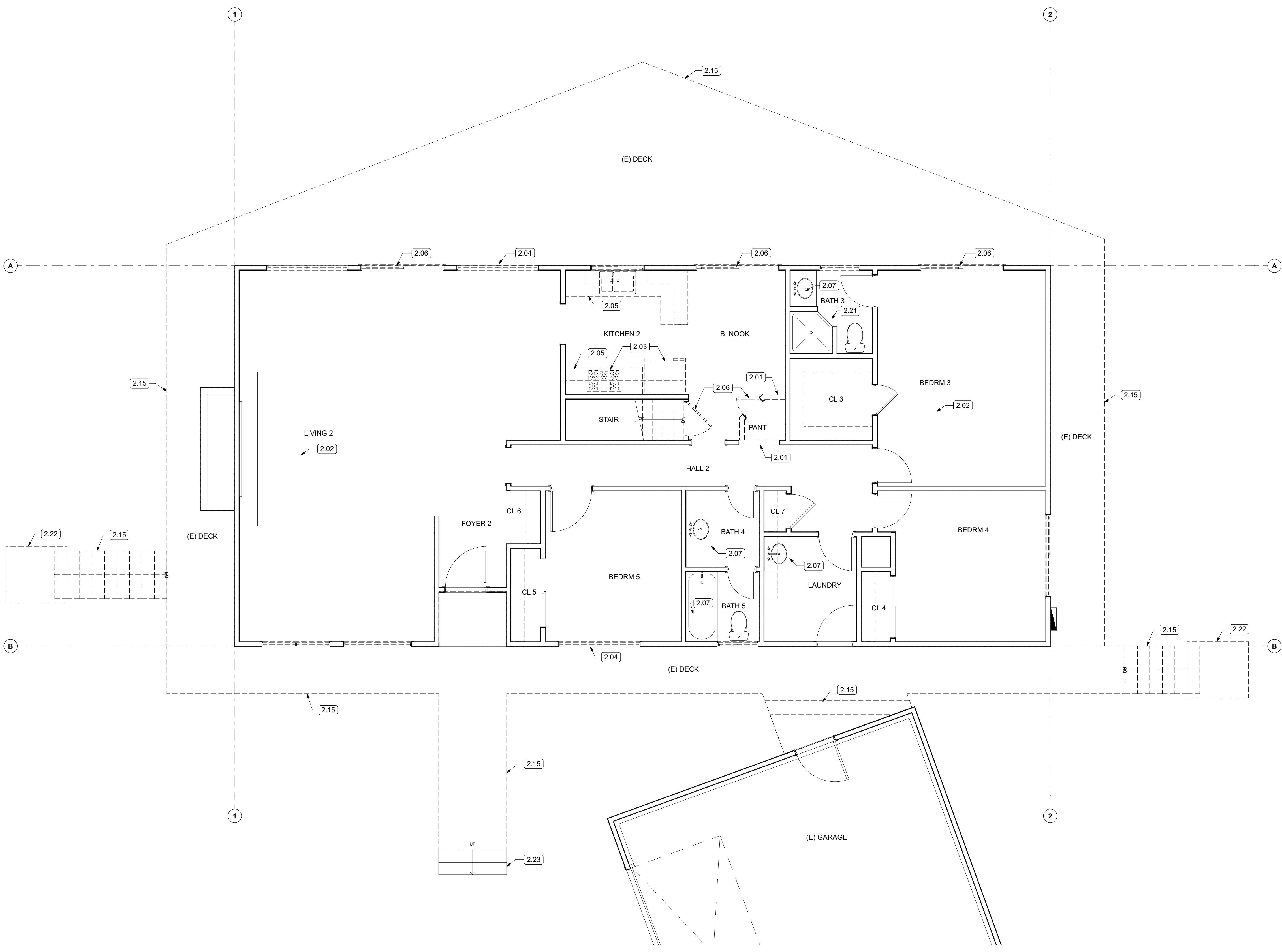


REV.	DESCRIPTION	DATE
A	SEPTIC, DECK, WALKWAY, WELL	5-1-26
B	PLAN CHECK COMMENTS	5-29-26

AUBURN ROAD RESIDENCE
13668 AUBURN ROAD
GRASS VALLEY, CA 95949
SITE PLAN

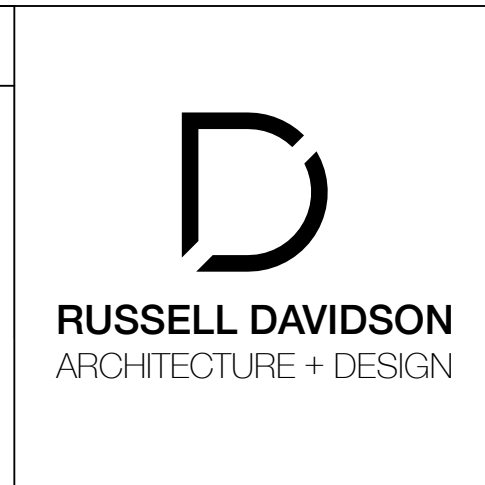
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DESIGNED BY: MCL
DRAWN BY: BES
PROJECT NO.: 25-0908
DATE: 04-10-2026
SHEET NUMBER: C1.0

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- LEGEND**
- (E) WALL TO REMAIN
 - - - - (E) WALL TO BE DEMOLISHED
 - //// (E) FINISHES TO BE REMOVED, STRUCTURE TO REMAIN
- DEMO PLAN NOTES**
1. REMOVE EXISTING FINISHES AS NOTED ON PLANS & REPAIR & PREPARE ALL SURFACES FOR FINISHES
 2. MATERIAL HAVING SALVAGE VALUE SHALL BECOME THE PROPERTY OF THE OWNER ALL OTHER MATERIAL AND DEBRIS ACCUMULATED AS A RESULT OF DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES BY THE CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER.
 3. FURNISH, INSTALL, AND MAINTAIN IN SAFE CONDITIONS AT ALL TIMES TEMPORARY PROTECTION REQUIRED TO ENSURE SAFETY FOR PERSONS AND PROPERTY DURING DEMOLITION AND REMOVAL WORK.
 4. FURNISH, INSTALL, AND MAINTAIN DUST COVERINGS TO PREVENT THE SPREAD OF DUST BEYOND THE IMMEDIATE AREA WHERE DEMOLITION IS BEING PERFORMED.
 5. REMOVE EXISTING ELECTRICAL OUTLETS AND WIRING AS REQUIRED IN WALLS, FLOORS AND FURNISHINGS TO BE DEMOLISHED.
 6. ALL ELECTRICAL, PLUMBING AND MECHANICAL WORK (DEMOLITION AND NEW) IS TO BE PERFORMED BY LICENSED, COMPETENT CONTRACTORS.
 7. PRIOR TO THE START OF DEMOLITION WORK GENERAL CONTRACTOR SHALL DETERMINE THE LOCATION OF LOAD BEARING PARTITIONS AND COLUMNS AND PROVIDE TEMPORARY SUPPORTS AS REQUIRED BY REMOVAL OR RELOCATION OF SUCH PARTITIONS, G.C. TO ENSURE ALL TEMPORARY SUPPORTS ARE CARRIED TO SUFFICIENT BEARING MATERIALS.
 8. REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL DEMOLITION LOCATIONS & DETAILS.
 9. IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION, CONTRACTOR SHALL NOTIFY OWNER IN WRITING IMMEDIATELY. CONTRACTOR SHALL COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES RELATIVE TO REMOVAL HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.
 10. ANY INTERRUPTION TO BUILDING UTILITIES SHALL BE CLEARED WITH OWNER 72 HOURS PRIOR TO PROPOSED INTERRUPTION.

- KEYNOTES**
- 2.01 DEMOLISH DESIGNATED WALLS INCLUDING STUDS, DRYWALL, AND ASSOCIATED MATERIALS
 - 2.02 REMOVE ALL DESIGNATED FLOORING MATERIALS AND WALL BASE DOWN TO SUBFLOOR OR SUBSTRATE, TYPICAL ALL ROOMS
 - 2.03 REMOVE DESIGNATED PLUMBING FIXTURES, APPLIANCES, AND ASSOCIATED COMPONENTS
 - 2.04 REMOVE ALL WINDOWS, FRAMES, AND ASSOCIATED HARDWARE, TYPICAL ALL EXTERIOR
 - 2.05 REMOVE DESIGNATED CABINETS, COUNTERTOPS, AND ASSOCIATED HARDWARE
 - 2.06 REMOVE DESIGNATED DOORS, FRAMES, AND ASSOCIATED HARDWARE
 - 2.07 PROVIDE ADEQUATE PROTECTION FOR ELEMENTS THAT WILL REMAIN DURING DEMOLITION
 - 2.15 REMOVE EXISTING SECOND FLOOR WOOD FRAMED DECK AND STAIRS
 - 2.21 EXISTING FLOORING TO REMAIN
 - 2.22 REMOVE EXISTING CONCRETE STAIR LANDING
 - 2.23 EXISTING CONCRETE STAIRS TO REMAIN



AUBURN RESIDENCE

13668 AUBURN ROAD
GRASS VALLEY, CA 95949
APN: 023-010-001-000

ID	NAME	DATE

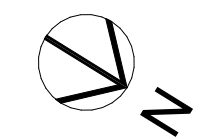
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CHECKED BY:	RPD
JOB:	2025.33

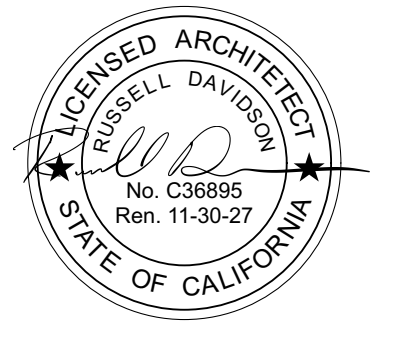
**DEMOLITION
MAIN FLOOR
PLAN**

JOB SET

A1.0

1 DEMO MAIN FLOOR PLAN
SCALE: 1/4" = 1'-0"





LEGEND

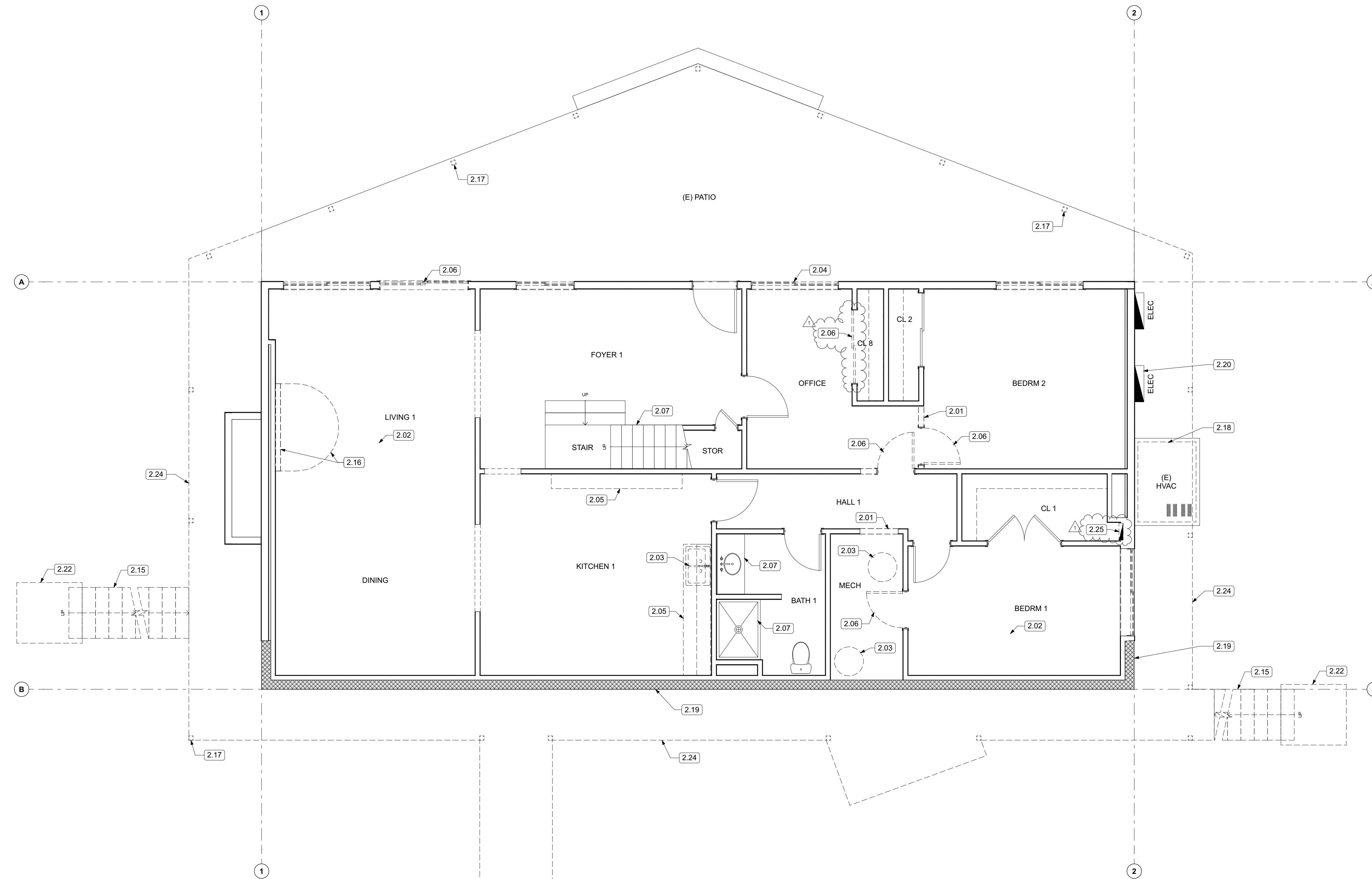
- (E) WALL TO REMAIN
- (E) WALL TO BE DEMOLISHED
- (E) FINISHES TO BE REMOVED, STRUCTURE TO REMAIN

DEMO PLAN NOTES

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4. FURNISH, INSTALL, AND MAINTAIN DUST COVERINGS TO PREVENT THE SPREAD OF DUST BEYOND THE IMMEDIATE AREA WHERE DEMOLITION IS BEING PERFORMED.
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8. REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL DEMOLITION LOCATIONS & DETAILS.
9. IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION, CONTRACTOR SHALL NOTIFY OWNER IN WRITING IMMEDIATELY. CONTRACTOR SHALL COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES RELATIVE TO REMOVAL HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.
10. ANY INTERRUPTION TO BUILDING UTILITIES SHALL BE CLEARED WITH OWNER 72 HOURS PRIOR TO PROPOSED INTERRUPTION.

KEYNOTES

- 2.01 DEMOLISH DESIGNATED WALLS INCLUDING STUDS, DRYWALL, AND ASSOCIATED MATERIALS
- 2.02 REMOVE ALL DESIGNATED FLOORING MATERIALS AND WALL BASE DOWN TO SUBFLOOR OR SUBSTRATE, TYPICAL ALL ROOMS
- 2.03 REMOVE DESIGNATED PLUMBING FIXTURES, APPLIANCES, AND ASSOCIATED COMPONENTS
- 2.04 REMOVE ALL WINDOWS, FRAMES, AND ASSOCIATED HARDWARE, TYPICAL ALL EXTERIOR
- 2.05 REMOVE DESIGNATED CABINETS, COUNTERTOPS, AND ASSOCIATED HARDWARE
- 2.06 REMOVE DESIGNATED DOORS, FRAMES, AND ASSOCIATED HARDWARE
- 2.07 PROVIDE ADEQUATE PROTECTION FOR ELEMENTS THAT WILL REMAIN DURING DEMOLITION
- 2.15 REMOVE EXISTING SECOND FLOOR WOOD FRAMED DECK AND STAIRS
- 2.16 REMOVE EXISTING BRICK. PATCH AND REPAIR FLOORING AND WALL TO MATCH ADJACENT FINISHES.
- 2.17 REMOVE EXISTING WOOD COLUMN AND ASSOCIATED FOOTING, TYPICAL.
- 2.18 REMOVE AND REPLACE EXISTING HVAC UNIT. SEE MECHANICAL DRAWINGS
- 2.19 EXISTING CMU RETAINING WALL
- 2.20 REPLACE EXISTING ZINSCO PANEL. SEE ELECTRICAL DRAWINGS
- 2.22 REMOVE EXISTING CONCRETE STAIR LANDING
- 2.24 LINE OF REMOVED WOOD FRAMED DECK ABOVE
- 2.25 REMOVE EXISTING ZINSCO PANEL. SEE ELECTRICAL DRAWINGS



1 DEMO LOWER FLOOR PLAN
SCALE: 1/4" = 1'-0"

AUBURN RESIDENCE

13668 AUBURN ROAD
GRASS VALLEY, CA 95949
APN: 023-010-001-000

ID	NAME	DATE
1	REV 1	4/29/26

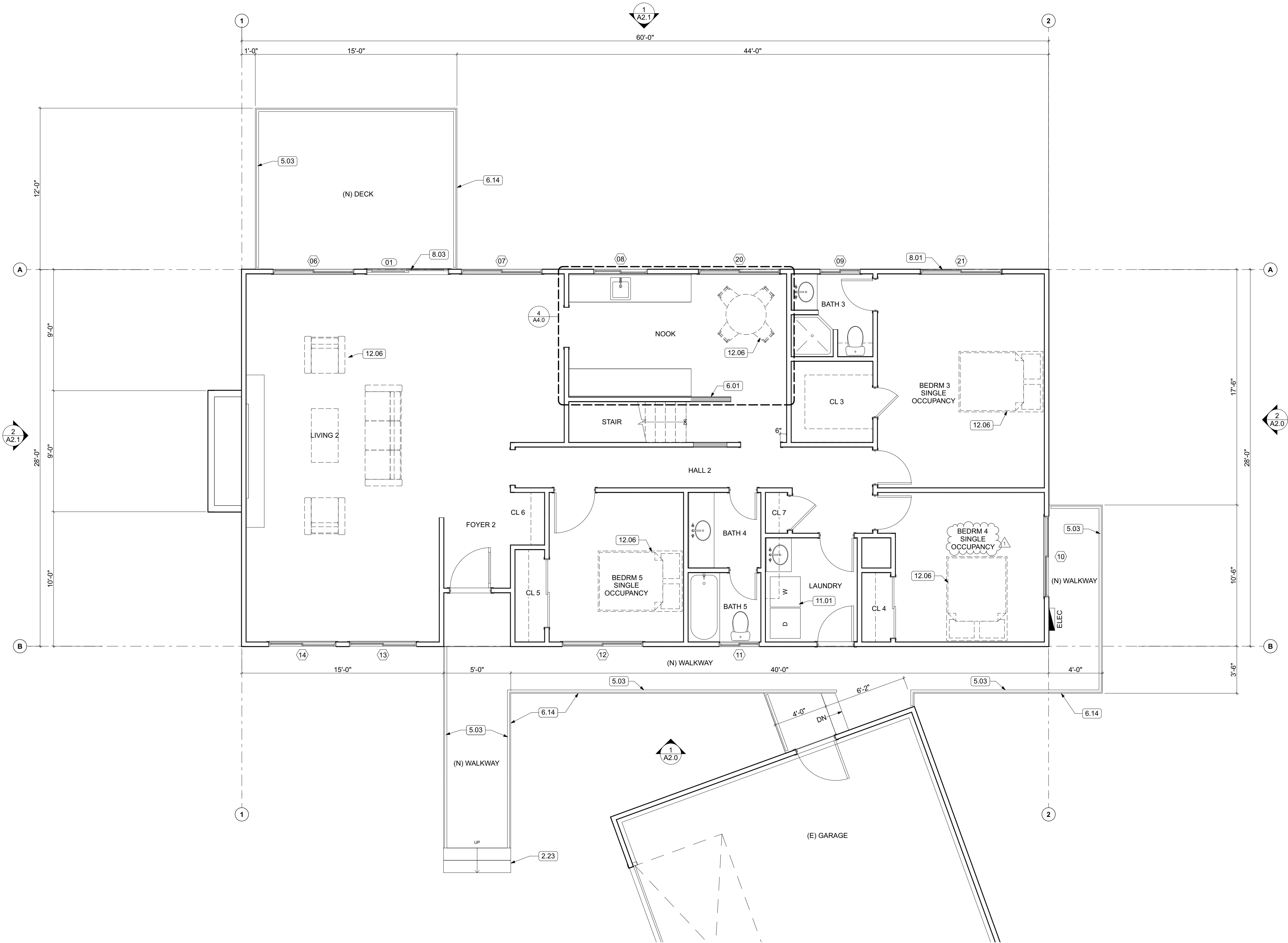
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CHECKED BY:	RPD
JOB:	2025.33

**DEMOLITION
LOWER FLOOR
PLAN**

JOB SET

A1.1

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1 NEW MAIN FLOOR PLAN
SCALE: 1/4" = 1'-0"

LEGEND

- (E) WALL TO REMAIN
- (N) WALL
- ROOM NAME**
ROOM IDENTIFICATION
- A WINDOW NUMBER
- 01 DOOR NUMBER
- 6.01 KEYNOTE

GENERAL NOTES

- REFERENCES**
1. REFER TO SHEET A5.0 FOR PARTITION ASSEMBLIES. ALL EXTERIOR WALLS K6 U.N.O. ALL INTERIOR WALLS A4 U.N.O.
 2. REFER TO SHEET A6.0 FOR WINDOW & DOOR SCHEDULES.
 3. REFER TO ENLARGED PLANS ON SHEET A4.0 FOR ADDITIONAL NOTATION AND DIMENSIONS.
 4. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
 5. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING GENERAL NOTES ON SHEET G1.0
 6. INSTALL FINISHES PER FINISH PLAN ON SHEET A1.4
 7. INSTALL WINDOWS & DOORS PER SCHEDULE ON SHEET A6.0

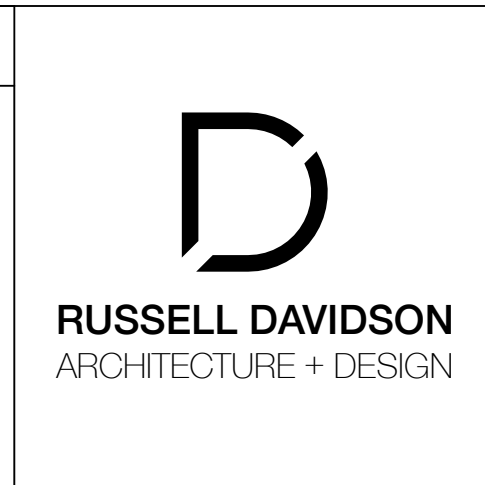
- NOTES**
1. WRITTEN DIMENSIONS TO PREVAIL OVER SCALING OF DRAWINGS. SUBCONTRACTOR TO VERIFY ALL DIM. PRIOR TO CONSTRUCTION
 2. EXTERIOR DIMENSIONS ARE MEASURED TO FACE OF STRUCTURAL STUD / CMU / SLAB EDGE OR CENTERLINE OF STRUCTURE U.N.O.
 3. INTERIOR DIMENSIONS ARE MEASURED TO FACE OF STUD, U.N.O.
 4. DOORS AND WINDOWS ARE MEASURED TO CENTERLINE OF OPENINGS.
 5. ALL ANGLED WALLS ARE AT 45 DEGREES U.N.O.
 6. SET JAMB AT HINGE SIDE OF:
EXTERIOR DOORS @ 4.5" U.N.O.
INTERIOR DOORS @ 4.5" U.N.O.
 7. PROVIDE MIN. 36"x36" LEVEL LANDINGS OUTSIDE AT ALL EXTERIOR DOORS PER CRC SECTION R311.3, WITH LANDINGS NOT MORE THAN 7.75" BELOW INSIDE FINISHED FLOORS AT INWARD SWINGING (OR SLIDING) DOORS AND 1.5" AT OUTWARD SWINGING PER CRC SECTION R311.3.1. ALL LANDINGS SHALL SLOPE 1/4" FT AWAY FROM DOORS MIN. TYP. PROVIDE MIN. 12" CLASS 2 AGGREGATE BASE ROCK UNDER SLABS AT ALL DOORWAY LANDINGS, TYP.
 8. GLASS DOORS & PANELS OF SHOWER & BATHTUB ENCLOSURES & ADJACENT WALL OPENINGS WITHIN 60" ABOVE A STANDING SURFACE OR DRAIN INLET SHALL BE TEMPERED SAFETY GLASS, AS PER CRC SECTION R308.4.5.
 9. BATHROOM FLOORS TO HAVE SKID-RESISTANT SURFACE.
 10. BASE LINING MATERIAL BENEATH SHOWER PAN SLOPED TO DRAIN AS PER CPC SECTION 408.7.
 11. OPEN GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR AN ORNAMENTAL PATTERN SUCH THAT A SPHERE 4 INCHES IN DIAMETER CANNOT PASS THROUGH.
 12. PROVIDE FIREBLOCKING IN CONCEALED SPACES PER CRC R302.11.

WILDLAND URBAN INTERFACE

1. PROPOSED CONSTRUCTION MATERIALS ARE NON-COMBUSTIBLE / IGNITION RESISTANT PER CRC SECTION R337.4
2. PROPOSED ROOFING SHALL COMPLY WITH CRC SECTION R337.5
3. VENTING FOR SOFFITS AND EAVES SHALL HAVE MESH SCREENING PER CRC SECTION R337.6
4. EXTERIOR WINDOWS AND DOORS SHALL BE MULTI-PANED, TEMPERED GLASS PER CRC SECTION R337.8
5. EXTERIOR DECKING AND WALKWAYS SHALL BE NON-COMBUSTIBLE, IGNITION RESISTANT PER CRC SECTION R327.9

KEYNOTES

- 2.23 EXISTING CONCRETE STAIRS TO REMAIN
- 5.03 INSTALL 42" HIGH CODE-COMPLIANT METAL GUARDRAILS WITH SURFACE ANCHORING PER STRUCTURAL DRAWINGS
- 6.01 INSTALL WOOD FRAMING WITH REQUIRED SEISMIC BLOCKING AND CONNECTIONS, TYPICAL
- 6.14 NEW DECK / WALKWAY FRAMING PER STRUCTURAL DRAWINGS
- 8.01 INSTALL ENERGY-EFFICIENT WINDOWS WITH LOW-EMISSIVITY GLASS. TYPICAL AT ALL EXTERIOR
- 8.03 INSTALL INSULATED EXTERIOR DOORS WITH WEATHERSTRIPPING AND THRESHOLDS
- 11.01 INTALL NEW WASHER AND DRYER
- 12.06 NEW FURNITURE, SHOWN DASHED, TYP



AUBURN RESIDENCE

13668 AUBURN ROAD
GRASS VALLEY, CA 95949
APN: 023-010-001-000

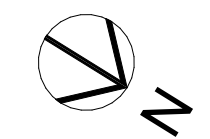
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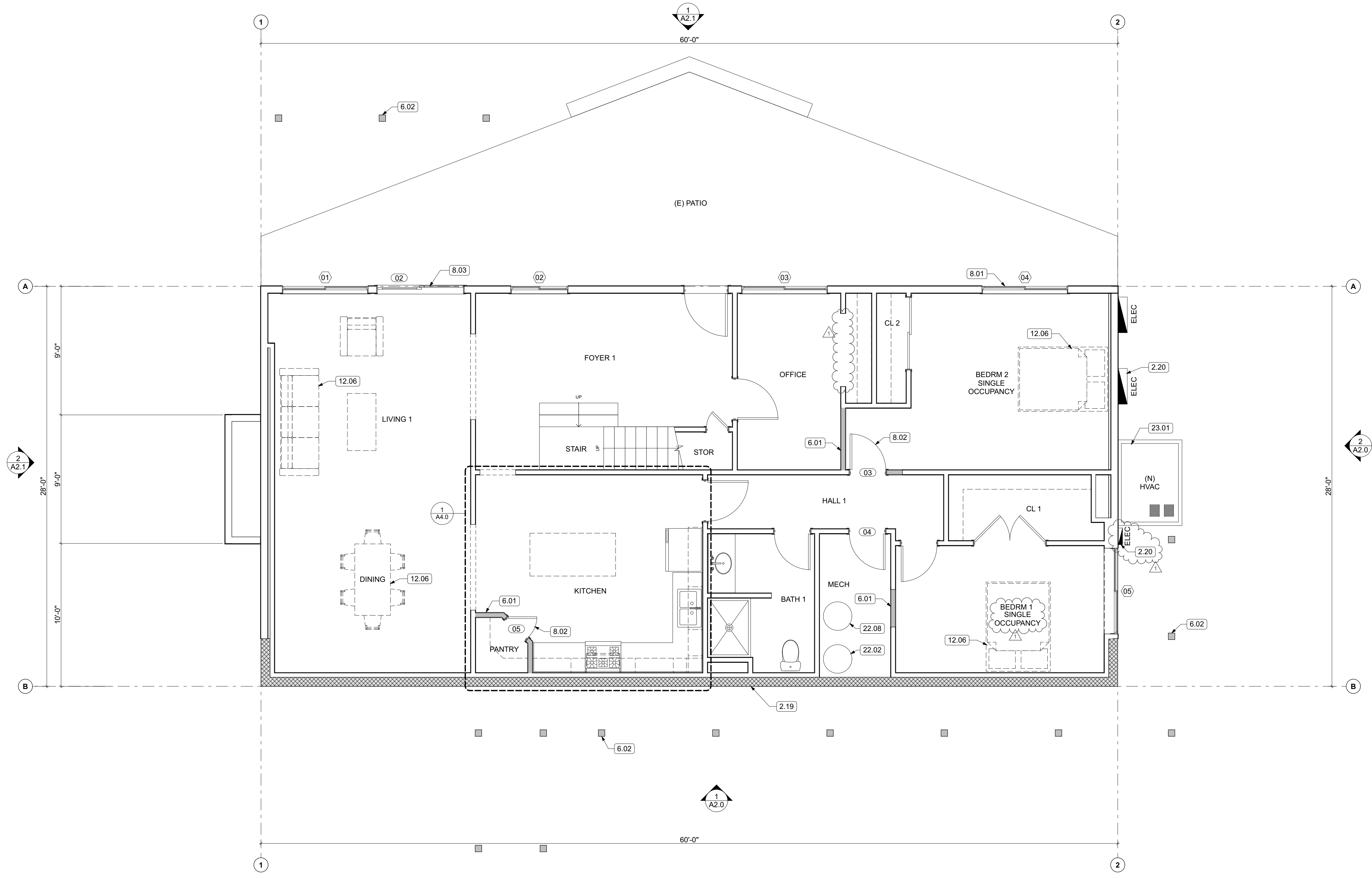
NEW MAIN FLOOR PLAN

JOB SET

A1.2



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1 NEW LOWER FLOOR PLAN
SCALE: 1/4" = 1'-0"

LEGEND

- (E) WALL TO REMAIN
- (N) WALL
- ROOM NAME**
ROOM IDENTIFICATION
- A WINDOW NUMBER
- 01 DOOR NUMBER
- 6.01 KEYNOTE

GENERAL NOTES

- REFERENCES**
1. REFER TO SHEET A5.0 FOR PARTITION ASSEMBLIES. ALL EXTERIOR WALLS K6 U.N.O. ALL INTERIOR WALLS A4 U.N.O.
 2. REFER TO SHEET A6.0 FOR WINDOW & DOOR SCHEDULES.
 3. REFER TO ENLARGED PLANS ON SHEET A4.0 FOR ADDITIONAL NOTATION AND DIMENSIONS.
 4. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
 5. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING GENERAL NOTES ON SHEET G1.0
 6. INSTALL FINISHES PER FINISH PLAN ON SHEET A1.4
 7. INSTALL WINDOWS & DOORS PER SCHEDULE ON SHEET A6.0

- NOTES**
1. WRITTEN DIMENSIONS TO PREVAIL OVER SCALING OF DRAWINGS. SUBCONTRACTOR TO VERIFY ALL DIM. PRIOR TO CONSTRUCTION
 2. EXTERIOR DIMENSIONS ARE MEASURED TO FACE OF STRUCTURAL STUD / CMU / SLAB EDGE OR CENTERLINE OF STRUCTURE U.N.O.
 3. INTERIOR DIMENSIONS ARE MEASURED TO FACE OF STUD, U.N.O.
 4. DOORS AND WINDOWS ARE MEASURED TO CENTERLINE OF OPENINGS.
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 6. SET JAMB AT HINGE SIDE OF:
EXTERIOR DOORS @ 4.5" U.N.O.
INTERIOR DOORS @ 4.5" U.N.O.
 7. PROVIDE MIN. 36"x36" LEVEL LANDINGS OUTSIDE AT ALL EXTERIOR DOORS PER CRC SECTION R311.3, WITH LANDINGS NOT MORE THAN 7.75" BELOW INSIDE FINISHED FLOORS AT INWARD SWINGING (OR SLIDING) DOORS AND 1.5" AT OUTWARD SWINGING PER CRC SECTION R311.3.1. ALL LANDINGS SHALL SLOPE 1/4" FT AWAY FROM DOORS MIN. TYP. PROVIDE MIN. 12" CLASS 2 AGGREGATE BASE ROCK UNDER SLABS AT ALL DOORWAY LANDINGS, TYP.
 8. GLASS DOORS & PANELS OF SHOWER & BATHTUB ENCLOSURES & ADJACENT WALL OPENINGS WITHIN 60" ABOVE A STANDING SURFACE OR DRAIN INLET SHALL BE TEMPERED SAFETY GLASS, AS PER CRC SECTION R308.4.5.
 9. BATHROOM FLOORS TO HAVE SKID-RESISTANT SURFACE.
 10. BASE LINING MATERIAL BENEATH SHOWER PAN SLOPED TO DRAIN AS PER CPC SECTION 408.7.
 11. OPEN GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR AN ORNAMENTAL PATTERN SUCH THAT A SPHERE 4 INCHES IN DIAMETER CANNOT PASS THROUGH.
 12. PROVIDE FIREBLOCKING IN CONCEALED SPACES PER CRC R302.11.

WILDLAND URBAN INTERFACE

1. PROPOSED CONSTRUCTION MATERIALS ARE NON-COMBUSTIBLE / IGNITION RESISTANT PER CRC SECTION R337.4
2. PROPOSED ROOFING SHALL COMPLY WITH CRC SECTION R337.5
3. VENTING FOR SOFFITS AND EAVES SHALL HAVE MESH SCREENING PER CRC SECTION R337.6
4. EXTERIOR WINDOWS AND DOORS SHALL BE MULTI-PANED, TEMPERED GLASS PER CRC SECTION R337.8
5. EXTERIOR DECKING AND WALKWAYS SHALL BE NON-COMBUSTIBLE, IGNITION RESISTANT PER CRC SECTION R327.9

KEYNOTES

- 2.19 EXISTING CMU RETAINING WALL
- 2.20 REPLACE EXISTING ZINSCO PANEL, SEE ELECTRICAL DRAWINGS
- 6.01 INSTALL WOOD FRAMING WITH REQUIRED SEISMIC BLOCKING AND CONNECTIONS, TYPICAL
- 6.02 INSTALL NEW WOOD COLUMNS PER STRUCTURAL
- 8.01 INSTALL ENERGY-EFFICIENT WINDOWS WITH LOW-EMISSIVITY GLASS, TYPICAL AT ALL EXTERIOR
- 8.02 INSTALL INTERIOR DOORS WITH CASINGS, HARDWARE, AND PROPER OPERATION, TYPICAL
- 8.03 INSTALL INSULATED EXTERIOR DOORS WITH WEATHERSTRIPPING AND THRESHOLDS
- 12.06 NEW FURNITURE, SHOWN DASHED, TYP
- 22.02 INSTALL NEW WATER HEATER PER PLUMBING DRAWINGS
- 22.08 RELOCATED EXISTING PRESSURE TANK PER PLUMBING DRAWINGS
- 23.01 INSTALL NEW HVAC UNIT. SEE MECHANICAL DRAWINGS.



RUSSELL DAVIDSON
ARCHITECTURE + DESIGN



AUBURN RESIDENCE

13668 AUBURN ROAD
GRASS VALLEY, CA 95949
APN: 023-010-001-000

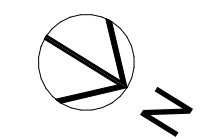
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SUBMITTED:	DATE
SCALE:	AS NOTED
DRAWN BY:	GTB
CHECKED BY:	RPD
JOB:	2025-33

NEW LOWER FLOOR PLAN

JOB SET

A1.3

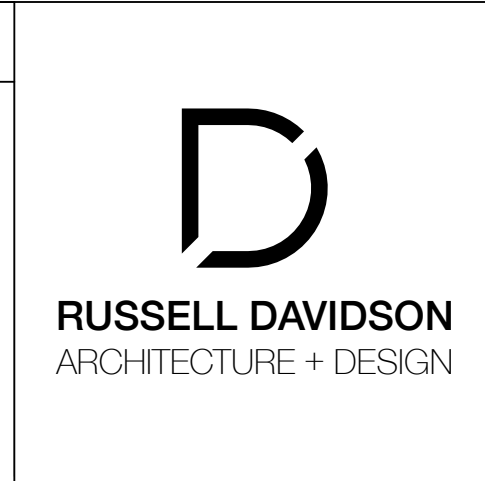


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LEGEND

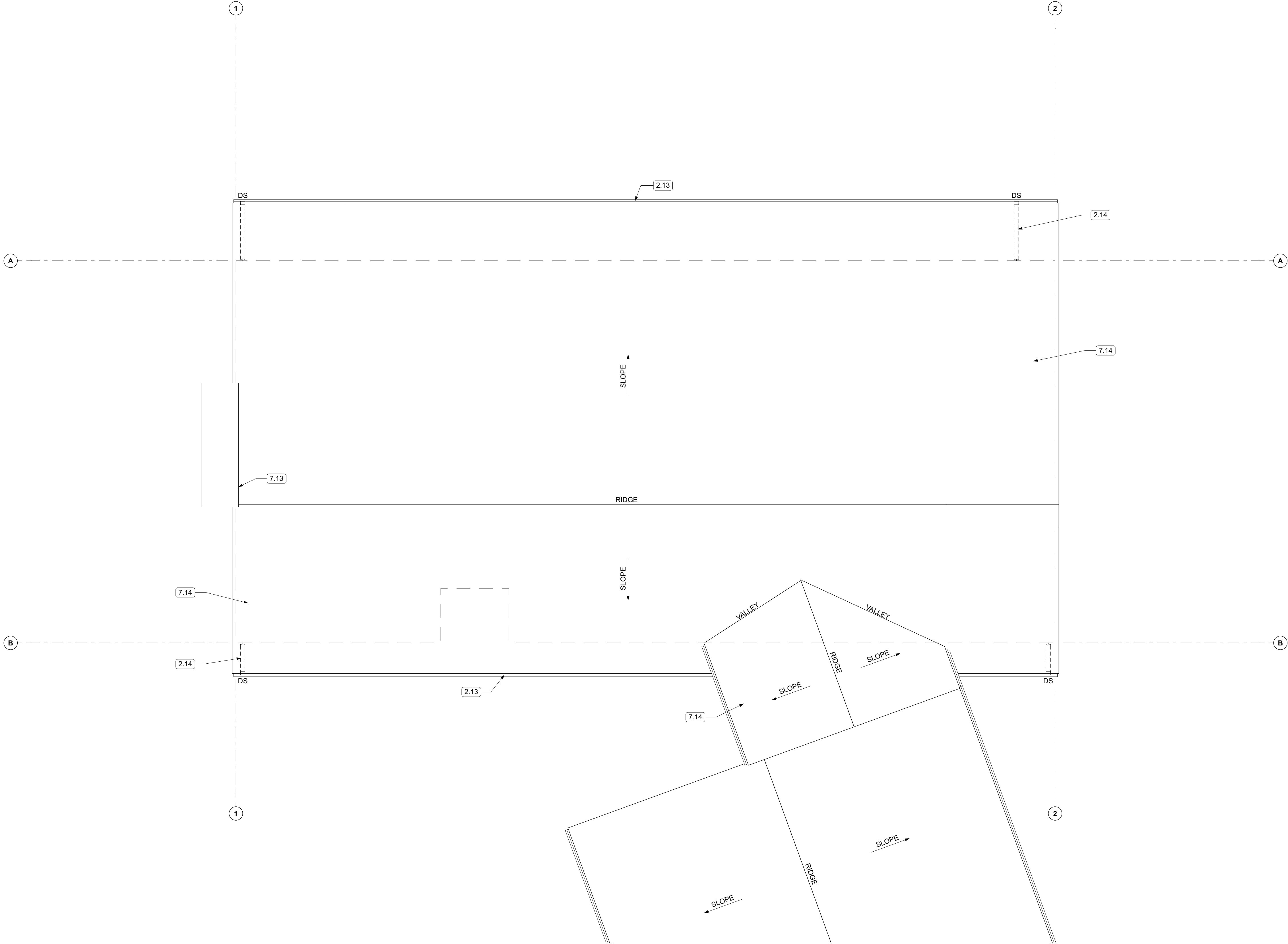
--- WALL BELOW

--- 3" DOWNSPOUT



ROOF PLAN NOTES

- THE CONTRACTOR SHALL HAVE PRESENT AT INSPECTIONS A COPY OF THE ICC-ES EVALUATION REPORT ON THE ROOFING SYSTEM.
- ALL ROOF COVERING SHALL BE 'IGNITION RESISTANT' COMPLYING WITH CRC SECTION R902.1 AND CLASS "A".
CLASS 'A' ROOFING COVERING: GAF TIMBERLINE OR EQUAL.
- ALL ROOFING WORK MUST ADHERE TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS TO MAINTAIN WARRANTY COVERAGE.
- ALL ROOF AND DECK SURFACES SHALL SLOPE AT 1/4" PER FOOT MINIMUM, U.O.N.
- PROVIDE 1/2" EXT-GRADE SHEATHING OVER 2X CRICKETING AT 16" O.C. SLOPED TO DRAIN 1/4" PER FOOT MIN. OVER 5/8" STRUCTURAL PLYWOOD SHEATHING W/ INTEGRAL RADIANT BARRIER AT ALL CHIMNEYS, MECHANICAL EQUIPMENT, AND OTHER LOCATIONS AS REQUIRED FOR POSITIVE DRAINAGE TOWARD DRAINS.
- FLASH AND SEAL ALL ROOF PENETRATIONS SUCH AS VENTS, FANS, HOODS, AS REQUIRED FOR A WATER-TIGHT INSTALLATION.
- NOT USED.
- EXPOSED VALLEY FLASHINGS SHALL BE CONSTRUCTED WITH NOT LESS THAN 0.019-INCH (NO. 26 GALVANIZED SHEET GAGE) CORROSION-RESISTANT METAL INSTALLED OVER A MINIMUM 36-INCH-WIDE UNDERLAYMENT CONSISTING OF ONE LAYER OF NO. 72 ASTM CAP SHEET RUNNING THE FULL LENGTH OF THE VALLEY.
- ANY ROOF GUTTERS SHALL BE PROVIDED WITH MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS.
- SKYLIGHTS SHALL BE TEMPERED GLASS.
- ALL VENTS (ROOF, FOUNDATION, COMBUSTION-AIR, ETC) SHALL RESIST THE INTRUSION OF FLAMES AND EMBERS
- VENTILATION OPENINGS FOR ENCLOSED ATTICS, EAVE SOFFIT SPACES, ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, UNDERFLOOR VENTILATION OPENINGS, AND VENT OPENINGS IN EXTERIOR WALLS AND EXTERIOR DOORS SHALL BE LISTED TO ASTM E 2886 AND COMPLY WITH ALL OF THE FOLLOWING:
 - THERE SHALL BE NO FLAMING IGNITION OF THE COTTON MATERIAL DURING THE EMBER INTRUSION TEST
 - THERE SHALL BE NO FLAMING IGNITION DURING THE INTEGRITY TEST PORTION OF THE FLAME INTRUSION TEST
 - THE MAXIMUM TEMPERATURE OF THE UNEXPOSED SIDE OF THE VENT SHALL NOT EXCEED 662 DEGREES FAHRENHEIT (350 DEGREES CELSIUS)
- NOT USED.
- NOT USED.
- ALL SHEET METAL FLASHING AND TRIM SHALL BE G.S.M.
- ENCLOSED RAFTER SPACES SHALL HAVE 1 IN. CLEAR CROSS VENTILATION.



1 NEW ROOF PLAN
SCALE: 1/4" = 1'-0"

KEYNOTES

2.13	EXISTING GUTTER TO REMAIN, REPAIR AS REQUIRED TYPICAL
2.14	EXISTING DOWNSPOUT TO REMAIN, REPAIR TERMINATION TO DIVERT WATER AWAY FROM FOUNDATION
7.13	REPAIR SIDING, TRIM AND FLASHING AS REQUIRED
7.14	EXISTING ROOF TO REMAIN, REPAIR DAMAGED ROOF SHINGLES, FLASHING AND GUTTERS, TYPICAL.

AUBURN RESIDENCE

13668 AUBURN ROAD
GRASS VALLEY, CA 95949
APN: 023-010-001-000

ID	NAME	DATE

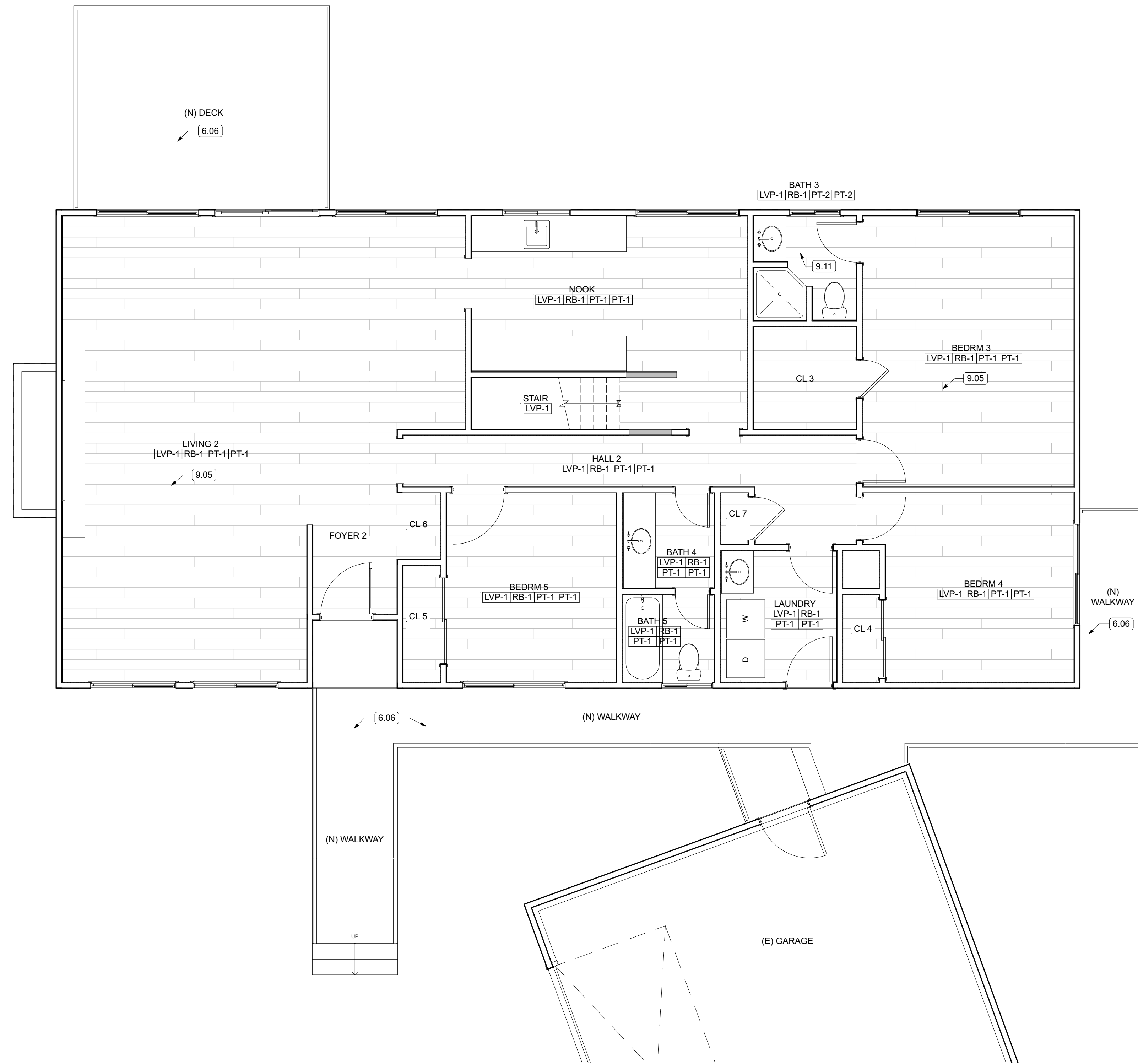
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SCALE:	AS NOTED
DRAWN BY:	GTB
CHECKED BY:	RPD
JOB:	2025-33

NEW ROOF PLAN

JOB SET

A1.6

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1 NEW MAIN FLOOR FINISH PLAN
SCALE: 1/4" = 1'-0"

FINISH NOTES

- THE FINISHES NOTED ON THE PLANS INDICATES THE TYPES AND EXTENT OF FINISHES. REFER TO OTHER CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION.
- SUBMIT SAMPLES IN ACCORDANCE WITH SPECIFICATIONS OF EACH FINISH AND FLOOR COVERING TO THE ARCHITECT FOR REVIEW AND APPROVAL BEFORE BEGINNING WORK. THE ARCHITECT HAS TEN (10) WORKING DAYS TO PROCESS SHOP DRAWINGS.
- SUBSTITUTIONS, REVISIONS OR CHANGES MUST HAVE APPROVAL OF THE ARCHITECT PRIOR TO PURCHASE AND INSTALLATION
- PAINT AT ALL INTERIOR WALLS & CEILINGS TO BE LOW SHEEN, UNLESS OTHERWISE NOTED.
- NO GYP. BD. SURFACES EXPOSED TO VIEW SHALL BE LEFT UNFINISHED OR UNPAINTED.
- "WATER RESISTANT" GYP. BD. AND/OR CEMENTITIOUS BOARD AT ALL BATHROOMS, POWDER ROOM, AND UTILITY ROOM.
- VERIFY WITH MANUFACTURER'S SPECIFICATIONS THAT FLOOR FINISHES ARE COMPATIBLE WITH RADIANT FLOOR HEATING SYSTEM IN AREAS WHERE INSTALLED.
- ALL FINISH SURFACES OF MILLWORK TO BE FILLED, SEALED, AND SANDED SMOOTH. PAINT FINISHES AT MILL WORK TO BE SPRAYED ON FOR A SMOOTH FINISH FREE OF STREAKS, DROPS, BLOBS, ETC.
- PROVIDE METAL TRIM OR CASING AT ALL EDGES OF PLASTER OR GYPSUM BOARD WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, EXCEPT FLOORS.
- IN ALL CASES, PROVIDE ISOLATION OF ALUMINUM FROM ADJACENT STEEL OR COAT SURFACES IN CONTACT WITH BITUMINOUS PAINTS.

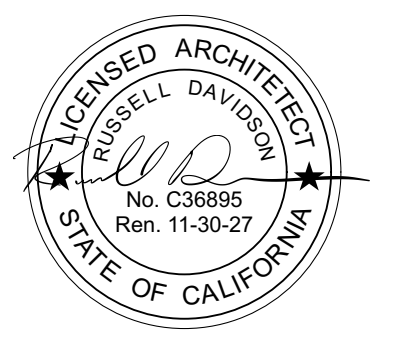
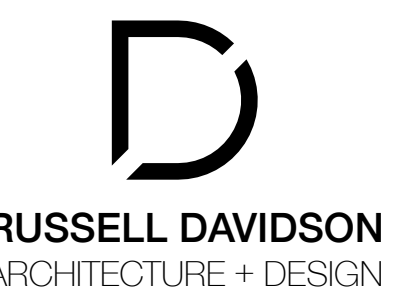
FINISH LEGEND

ROOM NAME	
FLOOR	BASE WALL CEILING
FLOOR	
LVP-1:	LUXURY VINYL PLANK
MANUFACTURER:	MANNINGTON OR EQUAL
COLOR:	TBD
NUMBER:	TBD
INSTALLATION:	AS SHOWN ON PLAN
LOCATION:	AS NOTED
SC-1:	SEALED CONCRETE
MANUFACTURER:	BENJAMIN MOORE OR EQUAL
FINISH:	CLEAR ACRYLIC SEALER
NUMBER:	HP1270
LOCATION:	AS NOTED
BASE:	
RB-1:	RUBBER BASE
MANUFACTURER:	ROPPE OR EQUAL
COLOR:	150 DARK GREY
TYPE:	4" TOPSET COVE
LOCATION:	THROUGHOUT, UON
PAINT:	
PT-1:	BENJAMIN MOORE OR EQUAL
MANUFACTURER:	BENJAMIN MOORE OR EQUAL
COLOR:	SWISS COFFEE
NUMBER:	OC-45
FINISH:	EGGSHELL
LOCATION:	AS NOTED
PT-2:	BENJAMIN MOORE OR EQUAL
MANUFACTURER:	BENJAMIN MOORE OR EQUAL
COLOR:	SWISS COFFEE
NUMBER:	OC-45
FINISH:	SEMI-GLOSS
LOCATION:	AS NOTED
PT-3:	BENJAMIN MOORE OR EQUAL
MANUFACTURER:	BENJAMIN MOORE OR EQUAL
COLOR:	CHANTILLY LACE
NUMBER:	2121-70
FINISH:	SEMI-GLOSS
LOCATION:	ALL WOOD TRIM
COUNTER:	
QC-1:	QUARTZ COMPOSITE:
MANUFACTURER:	VIATERA OR EQUAL
COLOR:	TBD
NUMBER:	TBD
LOCATION:	KITCHEN & NOOK
CASEWORK:	
MANUFACTURER:	TBD
COLOR:	FACTORY PAINT FINISH
LOCATION:	KITCHEN & NOOK
DECK:	
CD-1:	COMPOSITE DECK
MANUFACTURER:	TREX TRANSCEND OR APPROVED EQUAL
COLOR:	TBD
NUMBER:	TBD

NOTE: (E) = EXISTING TO REMAIN
NOTE: CLOSET FINISHES TO BE THE SAME AS ADJOINING ROOM

KEYNOTES

- 6.06 INSTALL COMPOSITE DECK BOARDS CD-1 WITH PROPER SPACING AND FASTENING SYSTEM
- 9.05 INSTALL LVT/LVP FLOORING WITH PROPER SUBFLOOR PREPARATION
- 9.11 INSTALL NEW LUXURY VINYL PLANK (LVP) OVER EXISTING FLOORING.



AUBURN RESIDENCE

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GRASS VALLEY, CA 95949
APN: 023-010-001-000

ID	NAME	DATE

SUBMITTED: DATE

SCALE: AS NOTED

DRAWN BY: GTB

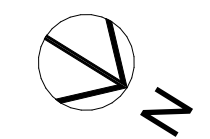
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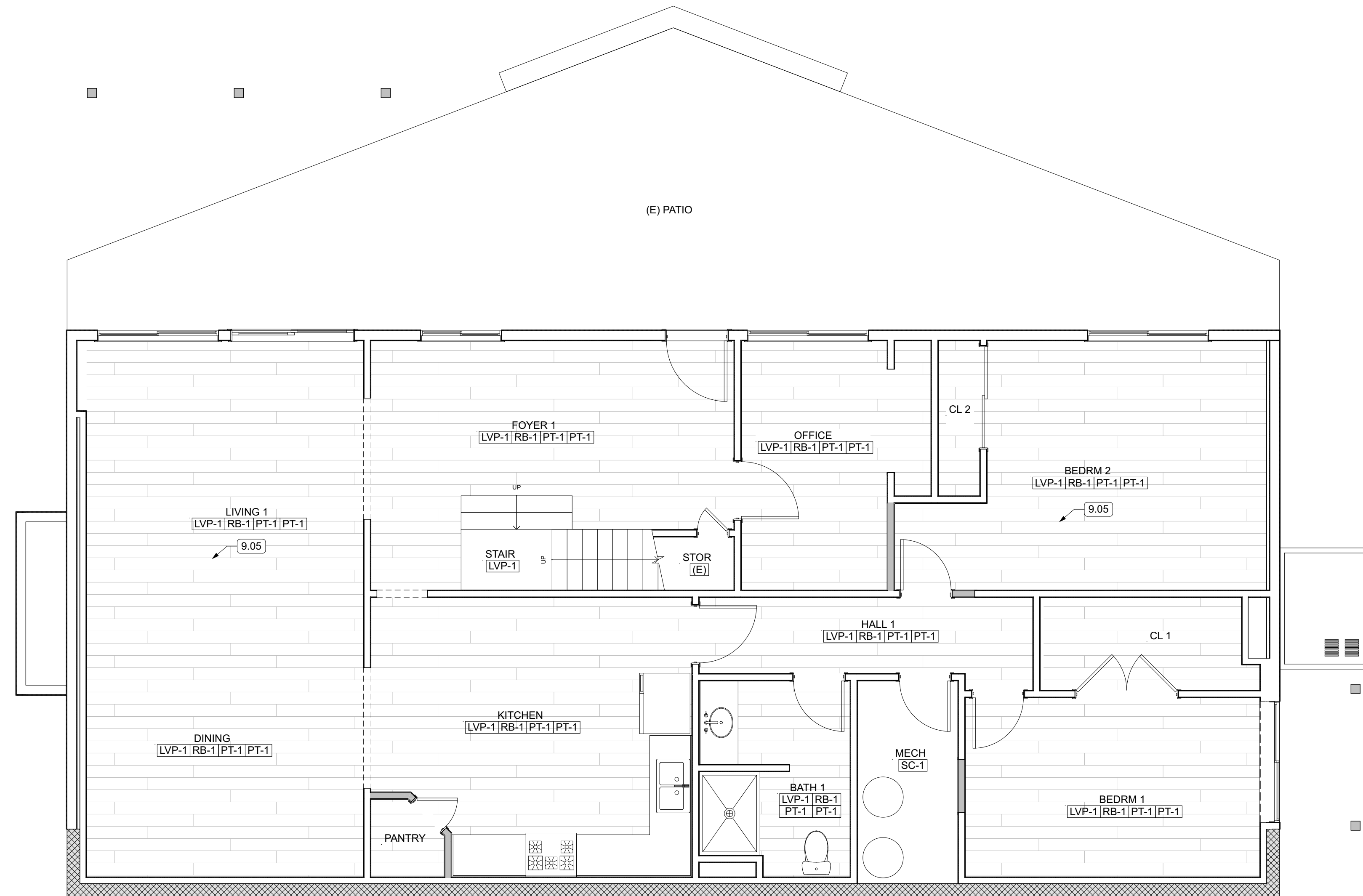
NEW MAIN FLOOR FINISH PLAN

JOB SET

A1.7



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1 NEW LOWER FLOOR FINISH PLAN
SCALE: 1/4" = 1'-0"

FINISH NOTES

1. THE FINISHES NOTED ON THE PLANS INDICATES THE TYPES AND EXTENT OF FINISHES. REFER TO OTHER CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION.
2. SUBMIT SAMPLES IN ACCORDANCE WITH SPECIFICATIONS OF EACH FINISH AND FLOOR COVERING TO THE ARCHITECT FOR REVIEW AND APPROVAL BEFORE BEGINNING WORK. THE ARCHITECT HAS TEN (10) WORKING DAYS TO PROCESS SHOP DRAWINGS.
3. SUBSTITUTIONS, REVISIONS OR CHANGES MUST HAVE APPROVAL OF THE ARCHITECT PRIOR TO PURCHASE AND INSTALLATION
4. PAINT AT ALL INTERIOR WALLS & CEILINGS TO BE LOW SHEEN, UNLESS OTHERWISE NOTED.
5. NO GYP. BD. SURFACES EXPOSED TO VIEW SHALL BE LEFT UNFINISHED OR UNPAINTED.
6. "WATER RESISTANT" GYP. BD. AND/OR CEMENTITIOUS BOARD AT ALL BATHROOMS, POWDER ROOM, AND UTILITY ROOM.
7. VERIFY WITH MANUFACTURER'S SPECIFICATIONS THAT FLOOR FINISHES ARE COMPATIBLE WITH RADIANT FLOOR HEATING SYSTEM IN AREAS WHERE INSTALLED.
8. ALL FINISH SURFACES OF MILLWORK TO BE FILLED, SEALED, AND SANDED SMOOTH. PAINT FINISHES AT MILL WORK TO BE SPRAYED ON FOR A SMOOTH FINISH FREE OF STREAKS, DROPS, BLOBS, ETC.
9. PROVIDE METAL TRIM OR CASING AT ALL EDGES OF PLASTER OR GYPSUM BOARD WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, EXCEPT FLOORS.
10. IN ALL CASES, PROVIDE ISOLATION OF ALUMINUM FROM ADJACENT STEEL OR COAT SURFACES IN CONTACT WITH BITUMINOUS PAINTS.

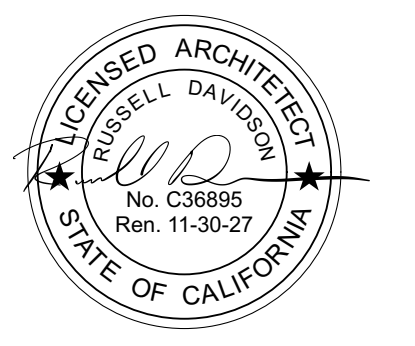
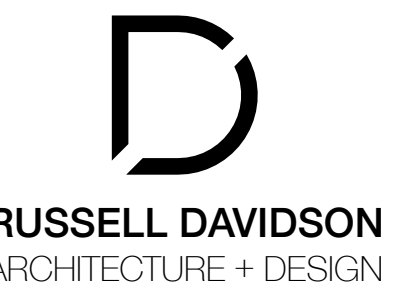
FINISH LEGEND

ROOM NAME	
FLOOR	BASE WALL CEILING
FLOOR	
LVP-1:	LUXURY VINYL PLANK
MANUFACTURER:	MANNINGTON OR EQUAL
COLOR:	TBD
NUMBER:	TBD
INSTALLATION:	AS SHOWN ON PLAN
LOCATION:	AS NOTED
SC-1:	SEALED CONCRETE
MANUFACTURER:	BENJAMIN MOORE OR EQUAL
FINISH:	CLEAR ACRYLIC SEALER
NUMBER:	HP1270
LOCATION:	AS NOTED
BASE:	
RB-1:	RUBBER BASE
MANUFACTURER:	ROPPE OR EQUAL
COLOR:	150 DARK GREY
TYPE:	4" TOPSET COVE
LOCATION:	THROUGHOUT, UON
PAINT:	
PT-1:	BENJAMIN MOORE OR EQUAL
MANUFACTURER:	BENJAMIN MOORE OR EQUAL
COLOR:	SWISS COFFEE
NUMBER:	OC-45
FINISH:	EGGSHELL
LOCATION:	AS NOTED
PT-2:	BENJAMIN MOORE OR EQUAL
MANUFACTURER:	BENJAMIN MOORE OR EQUAL
COLOR:	SWISS COFFEE
NUMBER:	OC-45
FINISH:	SEMI-GLOSS
LOCATION:	AS NOTED
PT-3:	BENJAMIN MOORE OR EQUAL
MANUFACTURER:	BENJAMIN MOORE OR EQUAL
COLOR:	CHANTILLY LACE
NUMBER:	2121-70
FINISH:	SEMI-GLOSS
LOCATION:	ALL WOOD TRIM
COUNTER:	
QC-1:	QUARTZ COMPOSITE:
MANUFACTURER:	VIATERA OR EQUAL
COLOR:	TBD
NUMBER:	TBD
LOCATION:	KITCHEN & NOOK
CASEWORK:	
MANUFACTURER:	TBD
COLOR:	FACTORY PAINT FINISH
LOCATION:	KITCHEN & NOOK
DECK:	
CD-1:	COMPOSITE DECK
MANUFACTURER:	TREX TRANSCEND OR APPROVED EQUAL
COLOR:	TBD
NUMBER:	TBD

NOTE: (E) = EXISTING TO REMAIN
NOTE: CLOSET FINISHES TO BE THE SAME AS ADJOINING ROOM

KEYNOTES

- 9.05 INSTALL LVT/LVP FLOORING WITH PROPER SUBFLOOR PREPARATION



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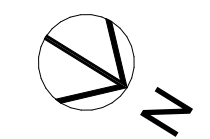
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JOB:	2025.33

NEW LOWER FLOOR FINISH PLAN

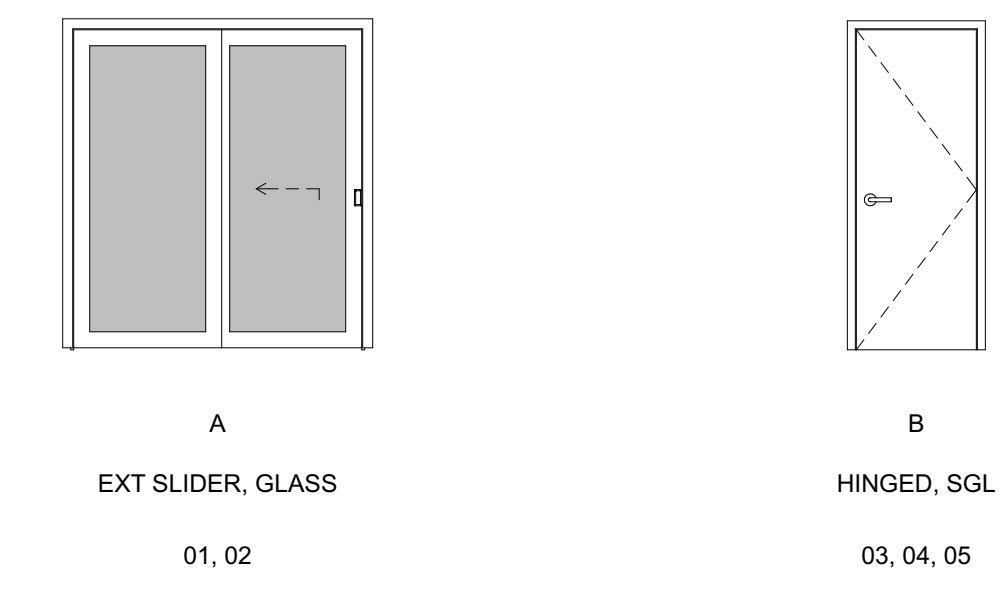
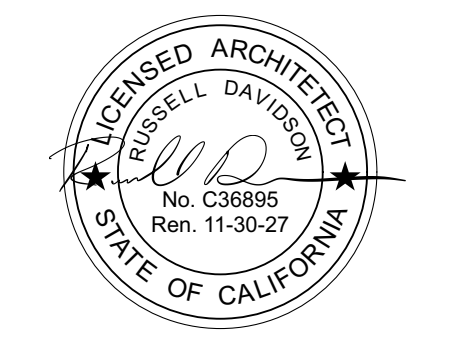
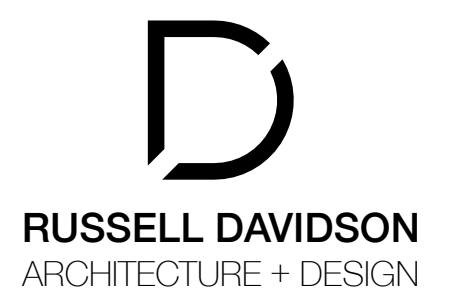
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DOOR SCHEDULE												U-VALUE	U/SHGC	FIRE RATING	HARDWARE SET	CLOSER	REMARKS
DOOR #	ROOM NAME	TYPE	STATUS	W	H	MFG	FRAME		LEAF								
							MATERIAL	FINISH	MATERIAL	FINISH							
EXTERIOR																	
01	LIVING 2	A	New	6'-0"	6'-8"	ANDERSEN 100 OR EQUAL	COMP.	WHITE	COMP.	STAINED	0.32	0.22			N		
02	LIVING 1	A	New	6'-0"	6'-8"	ANDERSEN 100 OR EQUAL	COMP.	WHITE	COMP.	WHITE	0.32	0.22			N		
INTERIOR																	
03	BEDRM 2	B	New	2'-6"	6'-8"	MASONITE OR EQUAL	WOOD	PAINTED	HCWD	STAINED				PRIVACY	N		
04	MECH	B	New	2'-6"	6'-8"	MASONITE OR EQUAL	WOOD	PAINTED	HCWD	STAINED				STORAGE	N		
05	KITCHEN	B	New	2'-0"	6'-8"	MASONITE OR EQUAL	WOOD	PAINTED	HCWD	STAINED				PASSAGE	N		

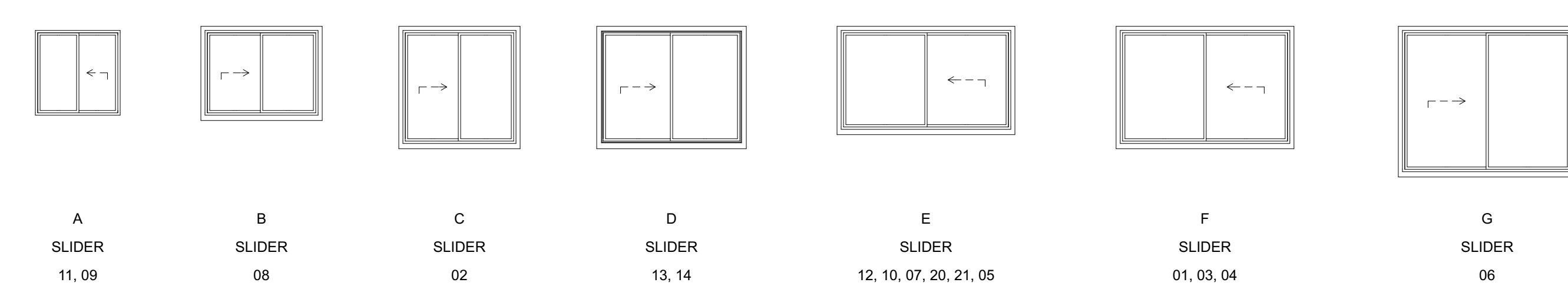
- ### DOOR NOTES
- ALL GLASS IN DOORS SHALL BE TEMPERED. TEMPERED GLASS SHALL BE PERMANENTLY IDENTIFIED AND VISIBLE WHEN THE UNIT IS GLAZED.
 - ALL GLAZING WILL BE INSTALLED WITH A CERTIFYING LABEL ATTACHED, SHOWING THE "U" VALUE.
 - REFER TO FLOOR PLANS FOR DIRECTION OF DOOR SWING.
 - DOORS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 116 E.E.S.
 - VENTILATION SHALL COMPLY WITH C.B.C. 1203.4 AND R303.
 - ALL EXTERIOR WINDOW AND EXTERIOR DOOR ASSEMBLIES TO HAVE AN STC RATING OF 36 OR GREATER.
 - DOORS MAY OPEN TO THE EXTERIOR ONLY IF THE FLOOR OR LANDING IS NOT MORE THAN 11/2 INCH LOWER THAN THE DOOR THRESHOLD. SECTION R311.3.1 CRC
 - GLAZED OPENINGS WITHIN EXTERIOR DOORS SHALL BE INSULATING GLASS UNITS WITH A MINIMUM OF ONE TEMPERED PANE.



2 DOOR TYPES
SCALE: 1" = 1'-0"

WINDOW SCHEDULE												U-VALUE	U/SHGC	FRAME		REMARKS
ID	LOCATION	TYPE	STATUS	W	H	MFG	TEMPERING	GLAZING	MATERIAL	FINISH						
01	LIVING 1	F	NEW	6'-0"	4'-0"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						
02	FOYER 1	C	NEW	4'-0"	4'-0"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						
03	OFFICE	F	NEW	6'-0"	4'-0"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						
04	BEDRM 2	F	NEW	6'-0"	4'-0"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						
05	BEDRM 1	E	NEW	6'-0"	3'-6"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						
06	LIVING 2	G	NEW	6'-0"	5'-0"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						
07	LIVING 2	E	NEW	6'-0"	3'-6"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						
08	NOOK	B	NEW	4'-0"	3'-0"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						
09	BATH 3	A	NEW	3'-0"	3'-0"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						
10	BEDRM 4	E	NEW	6'-0"	3'-6"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						
11	BATH 5	A	NEW	3'-0"	3'-0"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						
12	BEDRM 5	E	NEW	6'-0"	3'-6"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						
13	LIVING 2	D	NEW	5'-0"	4'-0"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						
14	LIVING 2	D	NEW	5'-0"	4'-0"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						
20	NOOK	E	NEW	6'-0"	3'-6"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						
21	BEDRM 3	E	NEW	6'-0"	3'-6"	ANDERSEN 100 OR EQUAL	TEMPERED (SGL)	LOW-E	COMP.	WHITE						

- ### WINDOW NOTES
- SEE EXTERIOR ELEVATION FOR DIRECTION OF OPERATION OF WINDOWS (ALL OPERABLE WINDOWS TO HAVE SCREENS).
 - ALL WINDOW DIMENSIONS PERTAIN TO ROUGH OPENINGS (R.O.), CONTRACTOR TO FIELD VERIFY ACTUAL DIMENSIONS FOR WINDOWS.
 - ALL GLAZING WILL BE INSTALLED WITH A CERTIFYING LABEL ATTACHED, SHOWING THE NFRC LABEL.
 - ALL GLAZING SHALL BE SPECTRALLY SELECTIVE LOW E COATED TO MEET TITLE 24 ENERGY REQUIREMENTS.
 - WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 116 E.E.S.D
 - VENTILATION SHALL COMPLY WITH C.B.C. 1203.4 AND R303
 - EVERY SLEEPING ROOM SHALL HAVE ONE OPERABLE WINDOW FOR EMERGENCY ESCAPE OR RESCUE WITH A MIN. NET CLEAR OPENABLE AREA OF 5.7 SQ. FT. MIN. NET CLEAR OPENABLE HEIGHT OF 24" MIN., NET CLEAR WIDTH OF 20" AND A FIN. SILL HEIGHT OF NOT MORE THAN 44" A.F.F. PER CRC SECTION 3101
 - ALL EXTERIOR WINDOW AND EXTERIOR DOOR ASSEMBLIES TO HAVE AN STC RATING OF 30 OR GREATER.
 - TEMPERED GLASS SHALL BE PERMANENTLY IDENTIFIED AND VISIBLE WHEN THE UNIT IS GLAZED.
 - EVERY SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL VENTILATION AND NATURAL LIGHT BY MEANS OF VENTILATION / ARTIFICIAL LIGHT. CBC SECTIONS 1203.4 AND 1205.1 AND R303
 - THE MINIMUM NET GLAZED AREA FOR NATURAL LIGHT SHALL NOT BE LESS THAN 8% OF THE FLOOR AREA OF THE ROOM SERVED. CBC SECTION 1205.2
 - THE MINIMUM OPENABLE AREA TO THE OUTDOORS FOR NATURAL VENTILATION SHALL BE 4% OF THE FLOOR AREA BEING VENTILATED. SECTION 1203.4
 - EXTERIOR WINDOWS AND EXTERIOR GLAZED DOOR ASSEMBLIES SHALL BE CONSTRUCTED OF MULTIPANE GLAZING WITH ONE TEMPERED PANE. HAVE A FIRE RESISTANCE RATING OF 20 MINUTES OR MEET THE REQUIREMENTS OF SFM 12-7A-2.



1 WINDOW TYPES
SCALE: 1" = 1'-0"

AUBURN RESIDENCE

13668 AUBURN ROAD
GRASS VALLEY, CA 95949
APN: 023-010-001-000

ID	NAME	DATE
1	REV 1	4/29/26

SUBMITTED: DATE
SCALE: AS NOTED
DRAWN BY: GTB
CHECKED BY: RPD
JOB: 2025.33

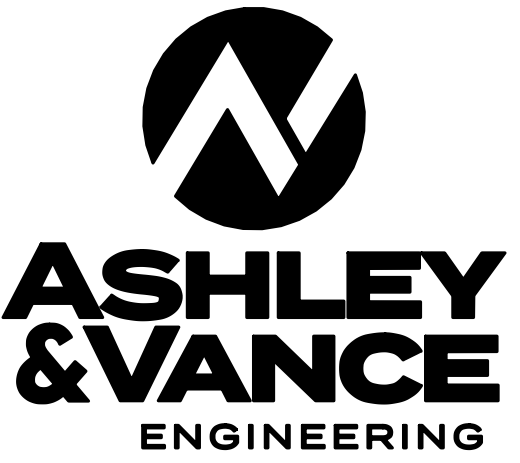
DOOR & WINDOW SCHEDULES

JOB SET

A6.0

Nevada County Homekey + Auburn Residence

13668 Auburn Rd.
Grass Valley, CA 95949



1504 Eureka Road #370
Roseville, CA 95661
(916) 790-3181

WWW.ASHLEYVANCE.COM

CIVIL • STRUCTURAL

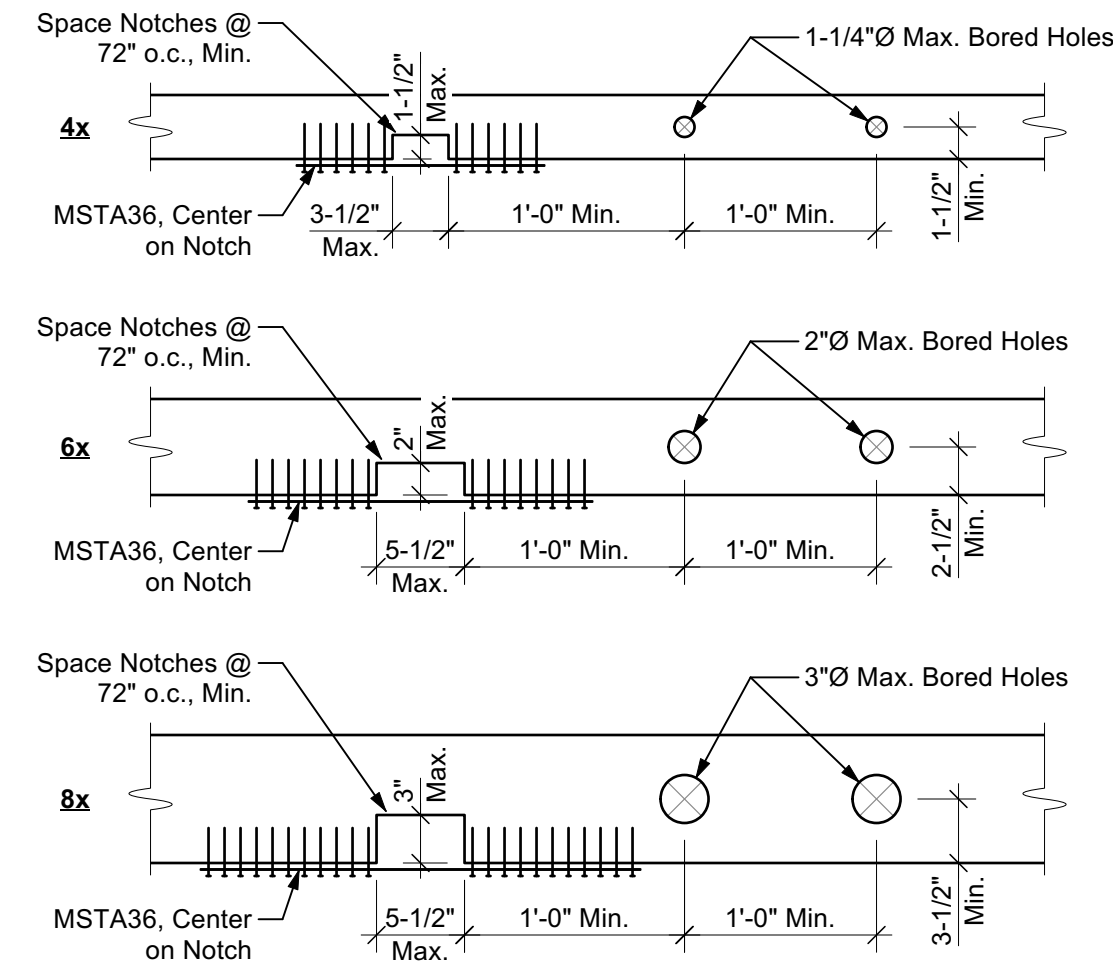
ENGINEER OF RECORD:



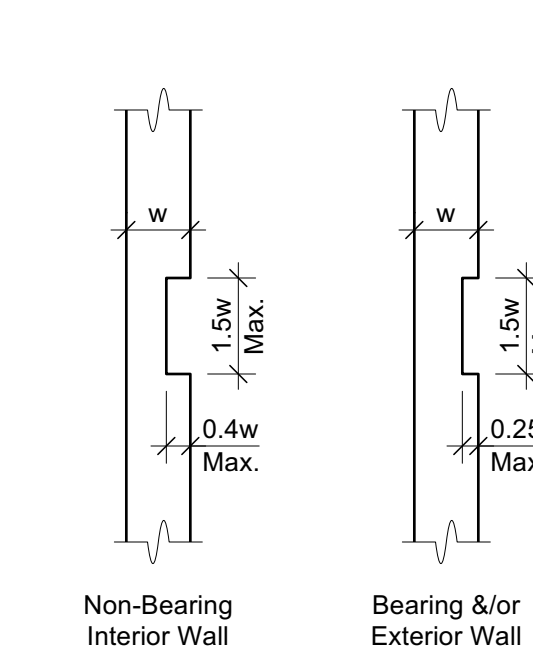
STANDARD DETAILS

9 TYPICAL NOTCHING & BORING

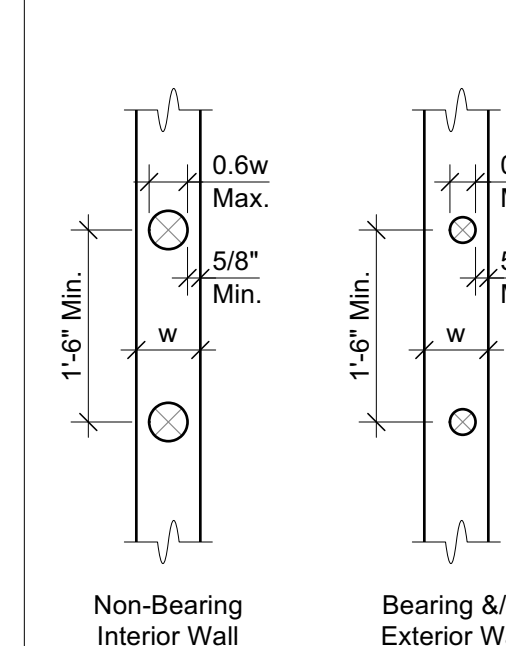
PENETRATIONS IN TOP PLATES & SILL PLATES



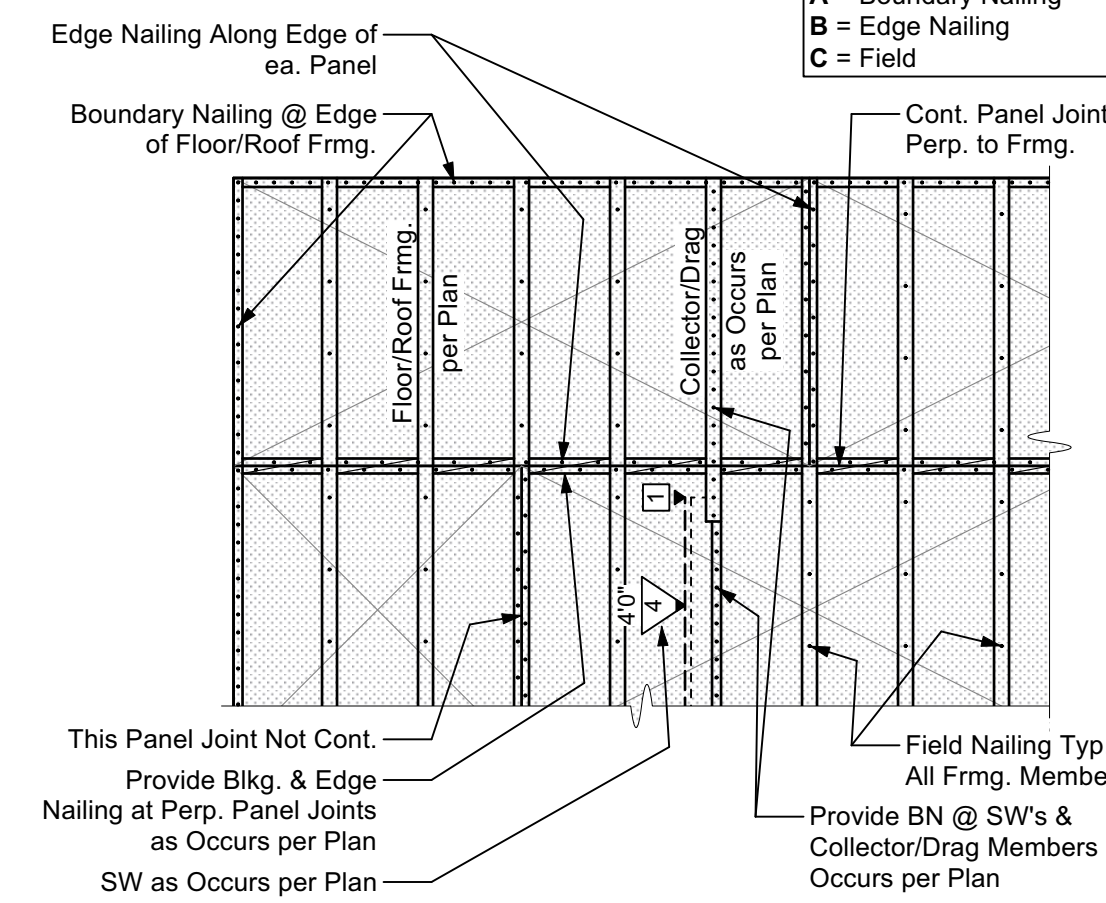
NOTCHING LIMITS FOR WOOD STUDS



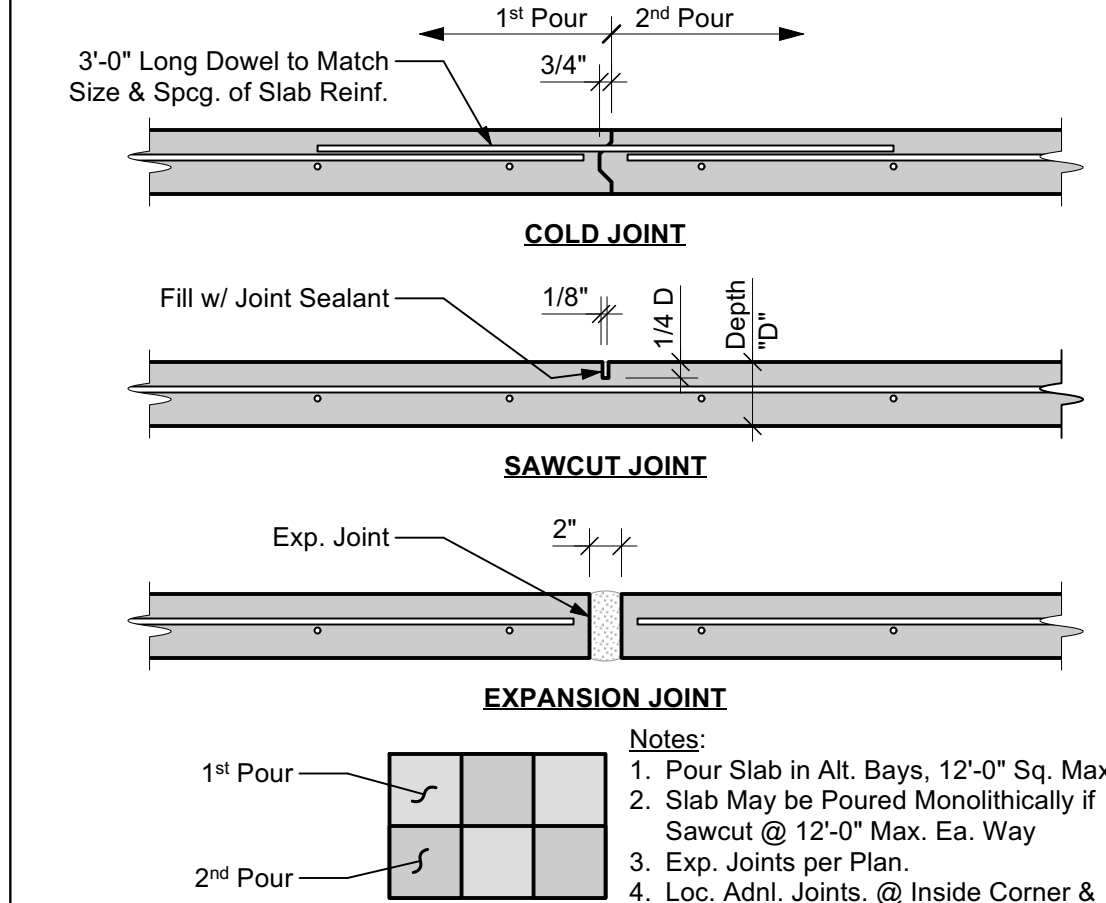
BORING LIMITS FOR WOOD STUDS



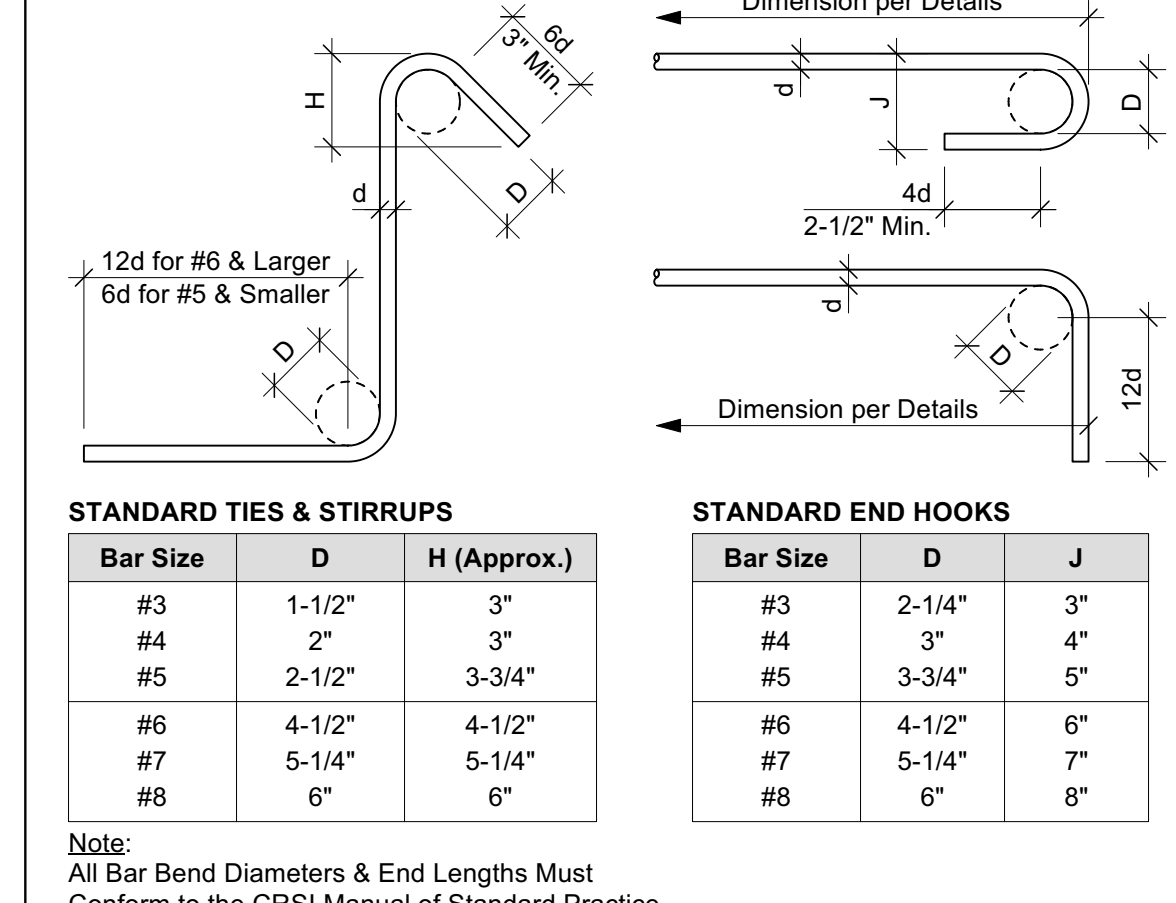
6 TYPICAL FLOOR / ROOF NAILING



4 TYPICAL CONCRETE SLAB JOINTS



1 TYPICAL REINFORCING BAR BENDS



ABBREVIATIONS

AB	Anchor Bolt	MB	Maximum Machine Bolt
A&B	Above and Below	MF	Moment Frame
Adv.	Above	Mfr.	Manufacturer(s)
Adj.	Additional	Min.	Minimum
Alt.	Adjacent	Mod.	Modular, Module
Alt.	Alternate (ive)	(N)	New
Appd.	Approved	N/A	Not Applicable
Arch.	Architectural	NTS	Not to Scale
Avg.	Average	OC	On Center
AYC	Alaskan Yellow Cedar	OD	Outside Diameter
Bldg.	Building	OPNG	Opening
Bkg.	Blocking	Opp.	Opposite
Bw.	Below	Opl.	Option, (al)
Bm.	Beam	Para.	Parallel
BN	Boundary Nailing	Pen.	Penetrate (ion)
Bot.	Bottom	Perf.	Perforated
Brp.	Bearing	Perim.	Perimeter
Btwn.	Between	Perp.	Perpendicular
Cant.	Cantilevered	PI	Plywood Index
CIP	Cast in Place	PJP	Partial Joint Pen.
CJ	Ceiling Joist	PL	Plate
CJP	Complete Joint Penetration	Ply.	Plywood
CL	Center Line	Prep.	Prepare, (ation)
Clg.	Ceiling	Press.	Pressure
Clr.	Clear	Proj.	Project
CMU	Conc. Masonry Unit	Prop.	Property
Col.	Column	Psf.	Pounds per Sq. Ft.
Conc.	Concrete	PT	Pressure-Treated
Conn.	Connection	PV	Photovoltaic (Solar Panels)
Const.	Construction	R	Radius
Cont.	Continue (ous)	Req'd	Require (d)
Cr.	Center	Rec(s)	Recommendation(s)
Cr.	Center	Ref.	Reference
Dbl.	Double	Reinf.	Reinforce (d), (ed), (ment), (ing)
Defl.	Deflection	Req'd	Require (d)
Demo.	Demolish (ion)	Reqs.	Requirements
Dep.	Depress (ed)	Ret.	Retaining
Dist.	Distance	Ret.	Roof Joist
Dia.	Diameter	RR	Roof Rafter
Diaph.	Diaphragm	RW	Redwood
Dim.	Dimension	Sched.	Schedule
DJ	Deck Joist	Shg.	Sheathing
Dwg.	Drawing	Sim.	Similar
(E)	Existing	SIP	Struct. Insulated Panel
Each	Each	SMS	Sheet Metal Screw
EF	Each Face	SOG	Slab on Grade
Elev.	Elevation	Spec.	Specify (ed), (cation)
Embed	Embed (ded), (ment)	SS	Stainless Steel
Engr.	Engineer	Std.	Standard
EOR	Engineer of Record	Stl.	Steel
Eq.	Equal, Equivalent	Struc.	Structure (al), (al)
ES	Each Side	SW	Shear Wall
EW	Each Way	T&G	Tongue and Groove
Exp.	Expansion	Temp.	Temporary
Ext.	Exterior	Thk.	Thickness
Fdn.	Foundation	T&B	Top and Bottom
FF	Finished Floor	T&G	Tongue and Groove
FJ	Floor Joist	Thk.	Thickness
Flr.	Floor	Thk.	Thickness
Frmg.	Framing	TN	Toe-Nail
Ft.	Feet	TP	Top Plate
Ftg.	Footing	T&B	Top and Bottom
Gal.	Gauge	TOC	Top of Concrete
Galv.	Galvanized	TOG	Top of Grade
GB	Grade Beam	TOS	Top of Steel
GC	General Contractor	TOW	Top of Wall
GLB	Glulam Beam	Trmr.	Trimmer Stud
Gyp.	Gypsum	Typ.	Typical
HD	Holddown	UNO	Unless Noted
Hdr.	Header	Vert.	Vertical
Hdw.	Hardware	VIF	Verify in Field
Hng.	Hanger	W	With
Horiz.	Horizontal	w/in	Within
HT	Height	w/o	Without
ID	Inside Diameter	WT	Weight
In.	Inches	WWF	Welded Wire Fabric
Ins.	Inspect (ion)	WWM	Welded Wire Mesh
Int.	Interior		
Inv.	Invert, Inverted		
KS	King Stud	@	At
KP	King Post	&	And
Loc.	Location	°	Degrees
LW	Light Weight	>	Greater Than
		<	Less Than
		#	Number, Pound(s)
		%	Percent (age)
		±	Plus or Minus

PROJECT INFORMATION

ARCHITECT:
Russell Davidson Architecture + Design
143 Crown Point Court, Suite C
Grass Valley, CA 95945

DESIGN PARAMETERS

GENERAL PARAMETERS

Building Code	2025 CBC *
Roof Loads	
Dead Loads** (DL)	15 psf
**Includes 3 psf PV Loads	
Live Loads (LL)	20 psf
Snow Loads (SL) Pg/Ps	68/58 psf
Floor Loads - Typ.	
Dead Loads (DL)	15 psf
Live Loads (LL)	40 psf
Floor Loads - Deck	
Dead Loads (DL)	11 psf
Live Loads (LL)	60 psf

SOILS VALUES

Bearing Pressure	1500 psf
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WIND DESIGN BASIS

Ultimate Wind Speed, V _{ULT}	95 mph
Risk Category	II
Exposure	C

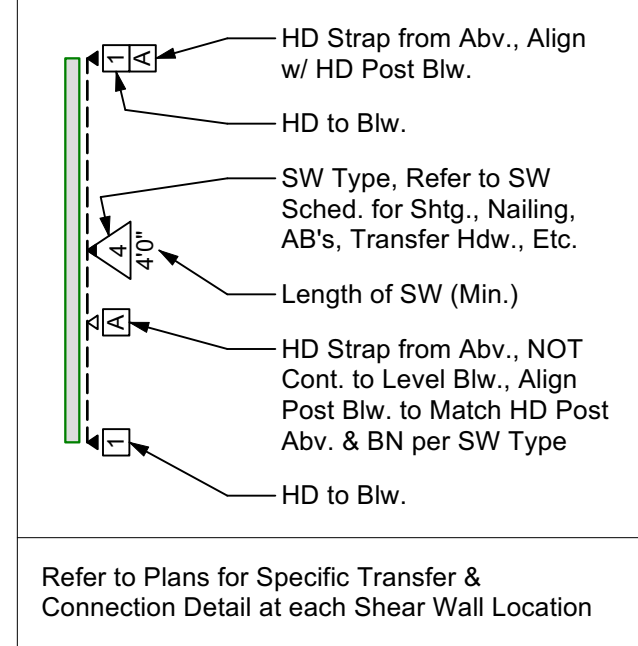
SEISMIC DESIGN BASIS

Seismic Design Category	D
Site Class (Default)	D
Seismic Factors	
S _s / S ₁	0.730 / 0.230
S _s / S ₁	0.660 / 0.400
Risk Category	II
Importance Factor, I _p	1.00
Resisting System:	Wood Shear Walls
Response Mod. Coefficient, R	6.5
Design Base Shear V = 0.106W	
Analysis Procedure:	Eqv. Lateral Force (ASCE 7-16, T. 12.6-1)

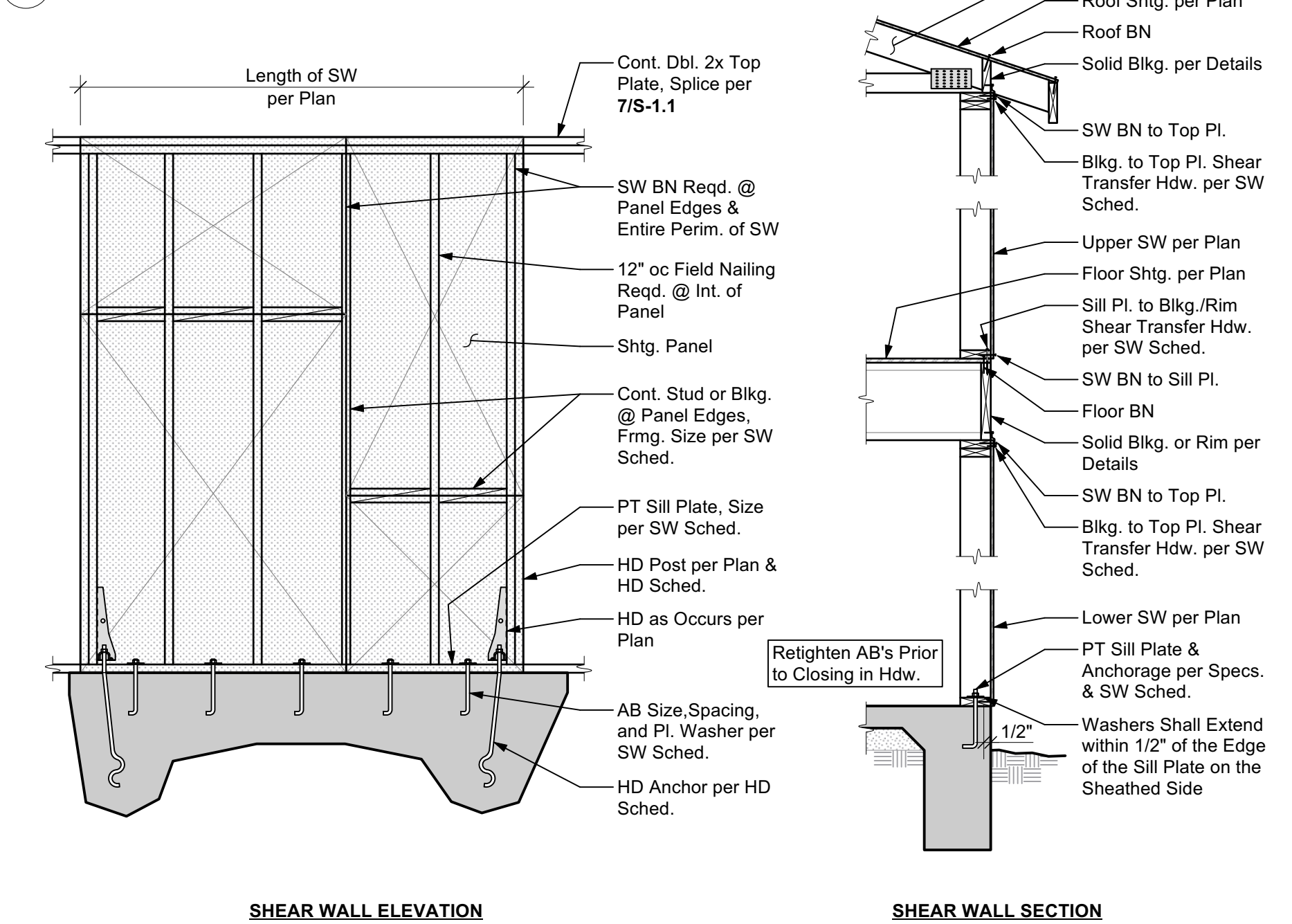
TYPICAL SHEAR WALL FRAMING NOTES:

- Single sided shear walls may be placed on EITHER side of the framed wall.
- Sill plates on masonry or concrete to be pressure treated per Timber / Lumber specifications. Sill plate thickness per SW Sched.
- Wall studs and blkg. are required at all adjoining panel edges. Thickness of wall studs and blkg. at panel edges per SW Sched.
- Where plywood is applied on both faces of a wall, edge nails shall be staggered on adjacent panel edges OR panel joints shall be offset to fall on different framing members. Plywood joint and sill plate nailing shall be staggered in all cases.
- Plywood panels shall butt along centerlines of framing members. Minimum plywood dimension for shearwall shall be 12".
- Nails shall be located at least 3/8" from all panel edges.
- The use of pneumatic nail guns for shear wall nailing is subject to continued satisfactory jobsite performance and subject to the review and approval by the Engineer of Record and/or Building Inspector. If the nail heads penetrate the outer ply more than would be normal for a hand held hammer, or if the minimum edge distances are not maintained, the performance will be deemed as unsatisfactory and the continued use of pneumatic nail for shear wall nailing will not be permitted.
- At all bearing walls (both exterior and interior walls) not noted as shear walls, continuous full depth blocking shall be provided between joists and rafters with LTP4 or A35 to top plates @ 32" oc at floors and 48" oc at roofs, unless noted otherwise per plan.
- Refer to material specifications for additional framing requirements.

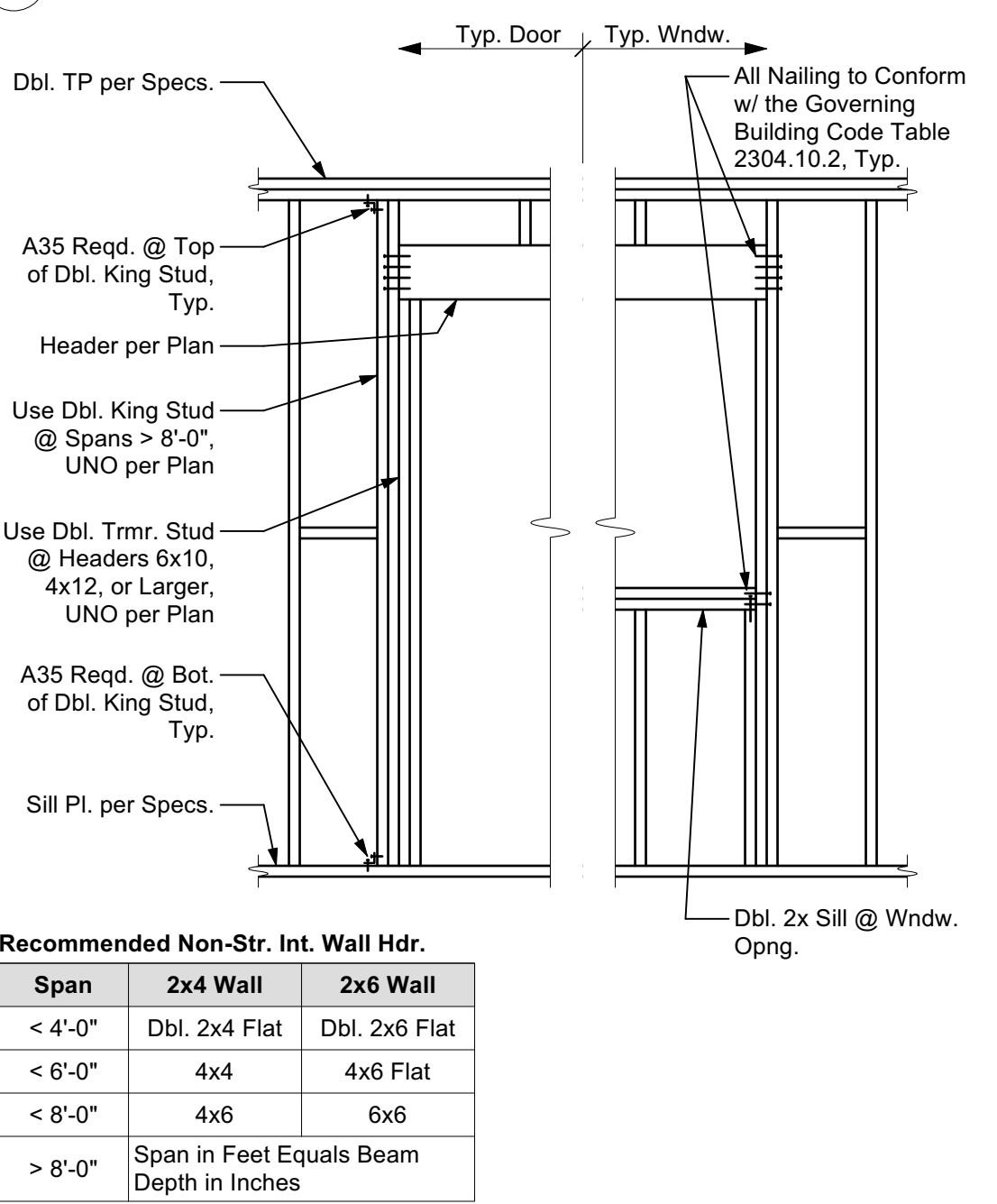
SHEAR WALL LEGEND



8 TYPICAL SHEAR WALL FRAMING



3 TYPICAL WOOD FRAMED OPENING



11/12/2026

REVISION:	03.30.2026	Issued for Permit
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SHEET INDEX

S-1.1	Structural Title Sheet
S-1.2	Structural Specifications
S-2.1	Foundation Plan
S-2.2	2nd Floor Framing Plan
S-2.3	Roof Framing Plan
S-3.1	Structural Details

PROJECT ENGINEER:
Ariene Castillo
(916) 790-3181 x217
ariene@ashleyvance.com

DATE: 03/30/2026 SCALE: NTS
AV JOB: 251477 SHEET SIZE: 24"x36"

STRUCTURAL TITLE SHEET
JOB SET
S-1.1

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF ASHLEY & VANCE ENGINEERING INC. AND ARE RESTRICTED FOR USE ON THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED. REPRODUCTION OR PUBLICATION IN ANY FORM, WHOLE OR IN PART, IS PROHIBITED. VISUAL CONTACT WITH THESE DOCUMENTS CONSTITUTES ACCEPTANCE OF THESE RESTRICTIONS.

GENERAL NOTES

- 1. The following notes, details, schedules & specifications shall apply to all phases of this project unless specifically noted otherwise. Notes and details on the structural plans shall take precedence over general notes and typical details. Where no details are given, construction shall be as shown for similar work.
2. All drawings are considered to be part of the contract documents. The Contractor shall be responsible for the review and coordination of all drawings and specifications prior to the start of construction. Any discrepancies shall be brought to the attention of the Engineer prior to the start of construction so that a clarification can be issued. Any work performed in conflict with the contract documents or any applicable code requirements shall be corrected by the Contractor at no expense to the Owner or Engineer.
3. All information on existing conditions shown on the structural plans are based on best present knowledge available, but without guarantee of accuracy. The Contractor shall be responsible for the verifications of all dimension and conditions at the site. Any discrepancies between actual site conditions and information shown on the drawings or in the specifications shall be brought to the attention of the EOR prior to the start of construction.
4. Refer to the Architectural plans for the following:
(a) Dimensions
(b) Size and location of all interior and exterior wall locations.
(c) Size and location of all floor, roof and wall openings
(d) Size and location of all drains, slopes, depressions, steps, etc.
(e) Specification of all finishes & waterproofing
(f) All other non-structural elements
5. Refer to the mechanical, electrical and plumbing plans for the following:
(a) Size and location of all equipment
(b) Pipe runs, sleeves, hangers and ladders
(c) All other mechanical, electrical or plumbing related elements
6. DO NOT scale structural plans. Contractor shall use all written dimensions on Architectural plans.
7. Construction materials shall be uniformly spread out if placed on floor or roof so as to not overload the framing. Load shall not exceed the design live load per square foot. It is the Contractor's responsibility to provide adequate shoring and/or bracing as required. Specifications and detailing of all waterproofing and drainage items, while sometimes shown on the structural plans for general information purposes only, are solely the design responsibility of others.
8. The Engineer will not be responsible for and will not have control or charge of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the construction delineated by these plans. It should be understood that the Contractor or his/her agent(s) shall supervise and direct all work and shall be solely and completely responsible for all construction means, methods, techniques, sequences, procedures and conditions on the job site, including safety of all persons and property during the entire period of construction. Periodic observations by the Engineer, his staff or representatives are not intended to include verification of dimensions or review the adequacy of the Contractor's safety measures on or near the construction site.
9. Modifications of the plans, notes, details and specifications shall not be permitted without prior approval from the Engineer.
10. All workmanship shall conform to the best practice prevailing in the various trades performing the work. The Contractor shall be responsible for coordinating the work of all trades.
11. It is the Contractor's responsibility to ensure that only approved structural plans are used during the course of construction. The use of unapproved documents shall be at the contractor's own risk. Corrections of all work based on such documents shall be performed at the Contractor's expense.
12. These plans and specifications represent the structural design only. No information nor warranty is provided for the work of any other Consultant (Architect, Mechanical, Electrical, etc.). This includes, but is not limited to, waterproofing, drainage, ventilation, accessibility, or dimensions.

FOUNDATIONS

- 1. Refer to Structural Design Parameters section on sheet S-1.1 for all soil design values used in calculations.
2. Soils values per Table 1806.2 of the latest edition of the Governing Building Code.
3. Unexpected Soil Conditions: At the discretion of the engineer of record, or the local building department, a soils report may be required in the event that substandard material is discovered on site. If this occurs, contact Engineer of Record for further guidance.
4. All compaction, fill, backfilling and site preparation shall be performed in accordance with project soils report or the Governing Building Code Chapter 19 & Appendix J. All such work shall be performed under the supervision of the building official.
5. Excavate to required depths and dimensions (as indicated in the drawings), cut square and smooth with firm level bottoms. Care shall be taken not to over-excavate foundation at lower elevation and prevent disturbance of soils around high elevation.
6. Foundations forms and excavations shall be clean and free of debris, achieving all minimum dimensions noted. Encroachment of soil at corners and reduced reinforcement clearances are not permitted.
7. Excavate all foundations to required depths into compacted fill or natural soil (as per plans and details) and as verified by the building official.
8. All foundations shall be inspected and approved by the appropriate building official prior to forming and placement of reinforcing or concrete.
9. Foundations shall not be poured until all required reinforcing steel, framing hardware, sleeves, inserts, conduits, pipes, etc. and formwork is properly placed and inspected by the appropriate building official/inspector(s).
10. It is the responsibility of the contractor in charge of framing to properly position all holdown bolts, anchor bolts, column bases, and all other cast-in-place hardware. Refer to typical details. All hardware to be secured prior to foundation inspections.
11. The sides and bottoms of dry excavations must be moistened to optimum moisture content or just above, just prior to placing concrete. Conversely, de-water footings as required to remove standing water and to maintain optimum working conditions.
12. The Contractor shall be solely responsible for all excavation procedures including lagging, shoring, and the protection of adjacent property, structures, streets, and utilities in accordance with all federal, state and local safety ordinances. The Contractor shall provide for the design and installation of all cribbing, bracing and shoring required.

EXISTING CONDITIONS

- 1. Work shown is new unless noted as Existing: (E).
2. Existing construction shown on these drawings was obtained from existing drawings and/or site investigation. Field verify all conditions & dimensions prior to shop drawing production and fabrication of structural elements.
3. Where existing conditions vary significantly from those shown on these drawings, the Engineer shall be notified prior to continued construction related to subject conditions.
4. Shore all existing construction as required, including where welding to existing steel framing. Shoring design by others.
5. Do not core or cut new openings in existing concrete or masonry without specific approval of the Engineer. All existing concrete surfaces to be in contact with new concrete shall be cleaned and roughened to 1/4" minimum amplitude. Use ICC approved bonding agent on existing concrete prior to placing new concrete.
6. Verify location of existing rebar before fabrication using non-destructive testing. Existing reinforcing shall be avoided where drilling for post-installed anchors or concrete dowels.
7. All existing (E) wood elements to remain shall be field inspected during construction and treated for dryrot removal/control. Where existing GLB's to remain are found to have extensive dryrot deeper than the top two laminations (3"), the structural engineer shall be notified prior to continued construction related to subject GLB's.
8. All existing connections at elements to be replaced shall be replaced or re-attached to match existing conditions.

CONCRETE

- 1. All portions of work pertaining to concrete construction shall conform to the Governing Building Code, Chapter 19, ACI Standard 318, and other referenced documents.
2. All concrete shall have:
(a) an ultimate compressive strength (fc) of 3,000 psi at 28 days, UNO.
(b) air content of 5% at point of placement.
(c) a W/C ratio of 0.55 or less for all slabs, walls, and columns, and 0.60 or less for all foundations, UNO.
(d) a normal dry-weight density, UNO.
(e) In regions with freeze/thaw cycles, 5% air entrainment shall be included in concrete exposed to weather.
3. Special inspection is NOT required as the foundations have been designed with fc = 2,500 psi unless otherwise noted on the Governing Building Code section 1705.3, exceptions 1, 2.1, and 2.3, unless explicitly specified herein, on the structural plans, or by the Building Department. At a minimum, special inspection is always required on:
(a) structural slabs, flat plates
(b) walls, columns, beams
(c) piles, caissons
(d) welding of reinforcement, installation of mechanical bar splice devices, epoxy application
When required or specified, special inspection services shall conform to the Governing Building Code, Chapter 17 and shall be provided by an ICC certified inspector or Building Department approved engineer. The Building Department reserves the right to waive or require special inspections. Nothing in these plans waives the Building Department's right to require special inspection at any point and on any material.
4. Testing of materials used in concrete construction may be performed as noted on structural plans or at the request of the Building Department to determine if materials are quality specified. Tests of materials and of concrete shall be made by an approved agency; such tests shall be made in accordance with the standards listed in the Governing Building Code, Table 1705.3. Copies of all test reports shall be provided to Engineer and Building Department for review in a timely manner.
5. The Contractor shall remove and replace any concrete which fails to attain specified 28 day compressive strength if so directed by the Engineer. Any defects in the hardened concrete shall be repaired to the satisfaction of the Engineer and/or Architect or the hardened concrete shall be replaced at the Contractor's expense.
6. All concrete shall be in accordance with ASTM C94. Placement of concrete shall be in accordance with ASTM C94 and ACI Standard 304.
7. All cement shall be Portland Cement Type I or II and shall conform to ASTM C150. Where concrete is placed against soil that contains high levels of sulfides, use Type V cement.
8. All aggregates shall conform to ASTM C33. Maximum aggregate sizes:
(a) Footings: 1-1/2"
(b) All other work: 3/4"
9. Where not specifically detailed, the minimum concrete cover on reinforcing steel shall be:
(a) Permanently exposed to earth or weather
i. Cast against earth: 3"
ii. Cast against forms: 2"
(b) Not exposed to earth or weather:
i. Slabs, walls, joists: 3/4"
ii. Beams, girders, columns: 1-1/2"
10. The minimum lap splice length for all reinforcing steel shall be as noted in the typical details on sheet S-1.1. All lap splices to be staggered.
11. All reinforcing steel, anchor bolts, dowels, inserts, and any other hardware to be cast in concrete shall be well secured in position prior to foundation inspection. All hardware to be installed shall conform to the manufacturer's specifications. Refer to architectural and structural plans for locations of embedded items.
12. Locations of all construction joints, other than specified on the structural plans, shall be approved by the Architect and Engineer prior to forming. Construction joints shall be thoroughly air and water cleaned and roughened to 1/4" amplitude, UNO. All surfaces to receive fresh concrete shall be maintained continuously wet at least three (3) hours in advance of concrete placement.
13. Control joints shall be provided in all concrete slabs-on-grade per typical detail on sheet S-1.1, UNO.
14. The Architect, Engineer and appropriate inspectors shall be notified in a timely manner for a reinforcement inspection prior to the placement of any concrete.
15. The Contractor shall obtain approval from the Architect and the Engineer prior to placing sleeves, pipes, ducts, chases, coring and opening on or through structural concrete beams, walls, floors, and roof slabs unless specifically detailed or noted on the plans. All pipes or conduits passing through concrete members shall be sleeved with standard steel pipe sections.
16. The Contractor is responsible for design, installation, maintenance and removal of all formwork. Forms shall be properly constructed, sufficiently tight to prevent leakage, sufficiently strong, and braced to maintain their shape and alignment until no longer needed for concrete support. Joints in formwork shall be tightly fitted and blocked, and shall produce a finished concrete surface that is true and free from blemishes. Forms for exposed concrete shall be pre-approved by the Architect to ensure conformance with design intent.
17. Remove formwork in accordance with the following schedule:
(a) Forms at slab edge: 1 day
(b) Side forms at footings: 2 days
(c) All other vertical surfaces: 7 days
(d) Beams, columns, girders: 15 days
(e) Elevated slabs: 28 days
Engineer reserves the right to modify removal schedule above based on field observations, concrete conditions, and/or concrete test results.
18. Retaining walls shall not be backfilled until concrete has set a minimum of 14 days. Refer to structural plans for slab and/or framing installation sequencing.
19. All concrete (except slabs-on-grade 6" or less) shall be mechanically vibrated as it is placed to properly consolidate the concrete.
20. Concrete shall be maintained in a moist condition and above 40 degrees fahrenheit for a min. of seven (7) days after placement unless otherwise accepted by EOR.
21. Concrete shall not be permitted to free fall more than six (6) feet. For heights greater than six (6) feet, use tremie, pump or other method consistent with applicable standards.
22. When specified ultimate compressive strength is greater than 2500 psi, Contractor shall submit mix designs to Architect and Engineer for approval seven (7) days prior to placement. Mix designs shall be prepared by an approved testing laboratory. Sufficient data must be provided for all admixtures.
23. Refer to Architectural plans for locations of all dimensions, slab depressions, slopes, drains, curbs, and control joints.
24. Provide continuous horizontal reinforcing through all wall intersections and corner. See details for additional information.
25. Drypack or non-shrink grout shall have a minimum 28 day compressive strength of 7000 psi unless noted otherwise. Provide under base plates, etc., as required for full bearing. Grout shall be in conformance with ASTM C1107.
26. Calcium chloride and concrete admixtures containing chloride salts shall not be used with steel pan decking.

REINFORCEMENT

- 1. All portions of work pertaining to concrete reinforcing construction shall conform to the Governing Building Code, Chapter 19, ACI Standard 318, and other referenced documents.
2. Fabrication, placement and installation of reinforcing steel shall conform to the Concrete Reinforcing Steel Institute (CRSI) Manual of Standard Practice and the Governing Building Code.
3. Reinforcing steel shall be deformed, clean, free of rust, grease or any other material likely to impair concrete bond.
4. All bars shall conform to ASTM A615, Grade 60 minimum (UNO on structural plans). All welded wire fabric (WWF) shall conform to ASTM A185 (flat sheets only).
5. Reinforcing steel that is to be welded shall conform to ASTM A706. All welding of reinforcement shall be subject to special inspection. Welding of reinforcement shall be with low hydrogen electrodes and shall conform to structural welding code - reinforcing steel, AWS D1.4, by the American Welding Society and ACI 318 Sec. 3.5.2. Welding rods used for the welding of reinforcement shall be E60XX. All welding shall be performed by certified welders. Contractor shall take necessary steps (standard ties, anchorage devices, etc.) to secure all reinforcing steel in their true position and prevent displacement during concrete placement.
6. Shop drawings for fabrication of reinforcing steel shall be approved by the Contractor and submitted to the Architect and Engineer for review and approval prior to fabrication. Shop drawings are not required for slabs-on-grade or foundations unless specifically noted on the structural plans.
7. Heating of reinforcing steel to aid in bending and shaping of bars is not permitted. All bends in reinforcing steel are to be made cold. All bend radii shall conform to CRSI Manual of Standard Practice. Reinforcing bars shall not be pre-bent without approval of EOR.
8. Refer to Concrete and Masonry notes for specific minimum splice length and splice staggering requirements. Lap welded wire fabric (WWF) reinforcement a minimum of two (2) modules or 12", whichever is greater. All splices are to be staggered.
9. (Special lateral systems) The following reinforcement shall comply with ASTM A706, Grade 60, UNO:
a. Vertical reinforcement at intersections and ends of concrete walls enclosed in ties or stirrups.
b. Longitudinal moment frame reinforcement.
c. Ties and stirrups providing lateral support of longitudinal bars or concrete confinement in columns and walls shall be ASTM A706, Grade 80.

ROUGH CARPENTRY

- 1. Refer to latest edition of the Governing Building Code, Table 2304.10.2, for all minimum nailing requirements.
2. Refer to individual sections for applicable material specifications.
3. Fabricate, size, install, connect, fasten, bore, notch, and cut wood and plywood with joints true, tight, and well-nailed, screwed or bolted as required, all members to have solid bearing without being shimmed, unless noted otherwise. Set horizontal members subject to bending with the crown up. Install framing plumb, square, true and cut for full bearing. Splices are not permitted between bearings. Use clips, straps unless otherwise specified.
4. Metal framing angles, anchor, chills, lengths, ties, holdowns, etc. shall be manufactured by Simpson Strong-Tie Co. No substitutions shall be permitted without prior approval of the Engineer.
5. All walls are to have continuous double 2x top plates spliced per Detail 7/S-1.1 unless specifically noted otherwise on the plans and details.
6. Wall Studs:
(a) Unless specifically noted on the plan and details, use the following guidelines for wall framing:
i. Use 2x4 studs at 16" oc for walls less than 9'-0" tall.
ii. Walls 9'-0" to 16'-0" tall shall be constructed of 2x6 studs at 16" oc
iii. Request specifically engineered wall details for walls greater than 16'-0" tall.
7. Blocking:
(a) Provide min. one row of nominal 2" thick blocking of same width as stud, fitted snugly and spiked into studs at mid-height of partitions or walls over 8' high.
(b) All foundation cripple walls (or "pony walls") less than 14" in height shall be solid blocking.
(c) Rim blocking/rim board to be 1-1/4" minimum width x full depth at bearing walls, UNO per plans and details. Refer to shearwall section for additional rim/blocking requirements.
8. Notching:
(a) Is not permitted of any structural member without prior approval
(b) In exterior and bearing walls, notches shall not exceed 25% of the stud depth.
(c) Non-bearing partition walls, notches shall not exceed 40% of the stud depth.
(d) Successive notches in the same member shall be spaced a min of 18" apart.
9. Boring:
(a) Is not permitted of any structural member without prior approval
(b) In exterior and bearing walls, holes shall not exceed 40% of the stud depth.
(c) Non-bearing partition walls, may be drilled not greater than 60% of stud depth.
(d) Successive holes in the same member shall be spaced a minimum of 18" apart.
10. Bearing:
(a) Provide a min. of 1-1/2" of bearing for all 2x joists and hds 4x10 / 6x8 & smaller.
(b) Provide a min. of 3" of bearing for all beams and hds 4x12 / 6x10 & larger, UNO on plans.
(c) Members bearing on prefabricated hangers are to have full bearing and nailing per manufacturer's specifications.
11. Posts:
(a) Posts inside walls shall bear on sill plates and shall be continuous between top and bottom plates, unless specifically noted otherwise on the plans.
(b) Provide posts under all beams, girders or double joists equal to the width of the supported member.
(c) Posts on upper levels are to be stacked on posts of equal size at levels below, unless a larger post is specified on the plans.
(d) Vertically oriented blocking ("squash blocking") shall be used to fully transfer the post area through floors to foundation. Vertical blocking shall be equal to floor thickness plus 1/16".
(e) Headers framing into continuous posts without trimmer studs shall be supported in Simpson HUC hangers unless noted otherwise on the plans.
(f) Isolated posts shall be seated in Simpson post or column bases, unless noted otherwise on the plans.
12. Roof Framing:
(a) Provide wood joists, as specified, laid with the crown up and spaced as indicated.
(b) Provide a minimum of 1-1/2" end bearing unless otherwise shown.
(c) Provide full depth solid 2x blk or cross-bridging between the joists at 8' oc max.
(d) Provide all cricket framing required to achieve positive drainage per Arch.
(e) Install plywood panels with the face grain across the framing and close joints and nail at each support. Fully nail with common nails per the plans.
(f) Plywood panels shall not be less than 4" x 8' except at boundaries and changes in framing direction, where the minimum panel dimension shall be no less than 24", unless all edges of undersized panels are supported by and fastened to framing members or blocking.
(g) Provide Simpson "PSC" clips at all plywood joints perpendicular to framing. Provide clips midway between framing members at the unsupported edges of plywood when members are spaced at 24" or greater. If clips are not used, provide solid blocking for joints perpendicular to framing.
13. Floor Framing:
(a) Provide wood joists, as specified, laid with the crown up and spaced as indicated.
(b) Provide a minimum of 1-1/2" end bearing unless otherwise shown.
(c) Provide full depth solid 2x blk or cross-bridging between the joists at 8' oc max. For floors framed with I joists, refer to the mfg's spec's for blk requirements.
(d) Provide full depth solid 2x blocking between the joists under all walls and partitions where the wall or partition is perpendicular to the floor framing (including floors framed with I joists).
(e) Install plywood sheathing with the face grain across supports, end supports staggered, and the edges of sheets centered over supports. If T&G plywood is used, blocking need not be provided at all plywood edges (UNO per plan). If T&G plywood is not used, blocking shall be provided at all plywood edges. Glue plywood to joists and fully nail with common nails per the plans.
(f) Plywood panels shall not be less than 4" x 8' except at boundaries and changes in framing direction, where the minimum panel dimension shall be no less than 24", unless all edges of undersized panels are supported by and fastened to framing members or blocking.
14. Shear Walls:
(a) Refer to plans for all shearwall locations, length type and nailing.
(b) Refer to Shearwall Schedule on title sheet for additional information.
(c) Shear wall lengths specified on plans are minimum as required.
(d) Shear walls to be nailed with common nails. All nails to have minimum 3/8" edge distance to panel or framing member.
(e) Where 3x framing is required per the shear wall schedule, stagger edge nailing.
(f) Oriented Strand Board (OSB) may be used in lieu of plywood.
(g) Typical Rim Board/Blocking at Shearwalls shall be 1-3/4" Min. LSL (refer to Engineered Lumber Section for Material Specifications). Refer to Shearwall Schedule per Plan for Min. Rim/Blkg Width Requirements per Transfer Fasteners.

TIMBER / LUMBER

- 1. All structural lumber shall be Douglas Fir-Larch, S4S and shall conform to the Governing Building Code, section 2303.1.1.
2. The minimum lumber grade of each member shall be as follows (unless specifically noted otherwise on plans and details):
(a) 2x studs, blocking, plates: Stud
(b) 2x joists #2 or better
(c) 4x4, 4x6, or 6x6 beams or posts #2 or better
(d) 4x8, 6x8, or larger beams or posts #1 or better
It is recommended (but not required) that all exposed members be Select Structural or better and free of heart center due to visual characteristics.
3. All lumber in contact with concrete or masonry shall be pressure treated Douglas Fir. Whenever it is necessary to cut, notch, bore or splice pressure treated material, all newly cut surfaces shall be thoroughly painted with the same preservative.
4. Maximum moisture content for all structural members shall not exceed 19%.
5. All plywood sheathing shall be CDX grade (or better) Douglas Fir with exterior glue. All sheathing shall conform to the Governing Building Code and grade-marked by the American Plywood Association (APA). Panel index to be 40/20 for floors and 24/0 for roofs unless specifically noted otherwise on the plans and details.

ENGINEERED LUMBER

- 1. Glu-laminated Beams (GLB):
(a) shall have the following properties:

Use	EWS Combination Symbol	Species / Grade	Flexural Stress, Fb (ksi)	Modulus of Elasticity, E (ksi)	Horiz. Shear Stress, Fv (psi)	Compression Fc para. (psi)	Compression Fc perp. (psi)
Simple Span Bm	24F-V4	DF	+2,400/-1,850	1,800	265	1,650	650
Continuous or Cantilever Bm	24F-V8	DF	+/- 2,400	1,800	265	1,650	650
Columns	2	DF / L2	+/- 1,800	1,300	265	1,600	560

(b) shall be notched, cut or drilled without prior approval from the Engineer
(c) shall have exterior glue and weather-treatment prior to installation
(d) shall be fabricated by an approved manufacturer & in accordance with ANSI A 190.1
(e) shall have factory standard camber of 3,500-5,000 ft on beams UNO per Plan
2. Laminated Veneer Lumber (LVL):
(a) shall be 1-3/4" minimum thickness with the following minimum properties:
i. E = 2000 ksi
ii. Fb = 2600 psi
iii. Fv = 285 psi
iv. Fc (parallel) = 2500 psi
v. Fc (perp.) = 750 psi
vi. Ft (parallel) = 1500 psi
vii. Specific Gravity = 0.50
(b) shall be fabricated by an approved manufacturer
(c) shall bear a minimum of 3-1/2" on specified supports. Provide full depth solid blocking at all bearing points
(d) shall be nailed in accordance with mfg's specifications. Unless otherwise approved, nailing into the top edge shall not be spaced any closer than:
i. 16d @ 8" oc, 10d @ 5" oc, and 8d @ 4" oc
ii. When nailing must be reduced, stagger rows a minimum of 1/2" apart while maintaining proper edge distances.
(e) shall be, when comprised of multiple members, connected with 16d nail, 1/2" bolts or 1/4" lag screws in accordance with manufacturer's specifications.
(f) shall not be cut, notched or drilled without specific written approval of the EOR.
3. Laminated Strand Lumber (LSL):
(a) shall be 1-3/4" minimum thickness with the following minimum properties:
i. E = 1550 ksi
ii. Fb = 2325 psi
iii. Fv = 310 psi
iv. Fc (parallel) = 2170 psi
v. Fc (perp.) = 900 psi
vi. Ft (parallel) = 1070 psi
vii. Specific Gravity = 0.50
(b) shall be fabricated by an approved manufacturer
(c) shall bear a minimum of 3-1/2" on specified supports. Provide full depth solid blocking at all bearing points
(d) shall be nailed in accordance with manufacturer's specifications. Unless otherwise approved, nailing into the top edge shall not be spaced any closer than:
i. 16d @ 8" oc, 10d @ 4" oc, and 8d @ 4" oc
ii. When nailing must be reduced, stagger rows a minimum of 1/2" apart while maintaining proper edge distances.
(e) shall be, when comprised of multiple members, connected with 16d nail, 1/2" bolts or 1/4" lag screws in accordance with manufacturer's specifications.
(f) shall not be cut, notched or drilled without specific written approval of the EOR.
4. Parallel Strand Lumber (PSL):
(a) shall be 2-1/2" minimum thickness with the following minimum properties:
i. E = 2200 ksi
ii. Fb = 2900 psi
iii. Fv = 290 psi
iv. Fc (parallel) = 2900 psi
v. Fc (perp.) = 625 psi
vi. Ft (parallel) = 2300 psi
vii. Specific Gravity = 0.50
(b) shall be fabricated by an approved manufacturer
(c) shall bear a minimum of 3-1/2" on specified supports. Provide full depth solid blocking at all bearing points
(d) shall be nailed in accordance with manufacturer's specifications. Unless otherwise approved, nailing shall not be spaced any closer than:
i. Narrow face: 16d @ 6" oc, 10d @ 4" oc, and 8d @ 4" oc
ii. Wide Face: 16d @ 8" oc, and 10d & 8d @ 4" oc
iii. When nailing must be reduced, stagger rows a minimum of 1/2" apart while maintaining proper edge distances.
(e) shall not be cut, notched or drilled without specific written approval of the EOR.
5. Plywood I Joists:
(a) shall be a manufacturer shall be clearly noted on the plans. Substitutions shall not be permitted without prior approval of the Engineer.
(b) shall be installed in accordance with applicable code approvals and mfg's spec's.
(c) shall bear a minimum of 1-3/4" at all end supports, and 3-1/2" at intermediate supports. Provide full depth solid blocking at all bearing points.
(d) shall be installed with intermediate blocking or bridging as specified by the Mfr. Only omit intermediate blocking when specifically allowed by the Mfr.
(e) shall not be cut, notched or drilled without specific written approval of the EOR.

WOOD FASTENERS

- 1. All Fasteners:
(a) shall be hot-dipped zinc-coated galvanized steel, stainless steel, silicon bronze, or copper when in contact with preservative-treated wood
i. When used in exterior applications, fasteners shall have coating types and weights in accordance with the treated wood or bolt manufacturer's requirements. A min. of ASTM A153, type G185 zinc-coated galvanized steel (or equiv.) shall be used.
ii. When used in an interior, dry environment in SBX/DOT or zinc borate preservative-treated wood, plain carbon nails shall be permitted.
2. Nails:
(a) shall be with "common" nails unless noted otherwise.
(b) shall not be driven closer than 1/2 their length nor closer than 1/4 of their length to the edge or end of a member, except for sheathing.
(c) shall be installed in pre-drilled lead holes if necessary to avoid splitting.
(d) All nailing shall conform to the Governing Building Code, Table 2304.10.2.
3. Lag screws:
(a) shall be installed into pre-drilled lead holes. Lubricant (or soap) shall be used to facilitate installation and prevent damage to the screws.
4. Bolts to Wood Framing:
(a) shall conform to ASTM A307, UNO specifically on plans and details.
(b) shall be installed in pre-drilled holes a max of 1/16" larger than the specified bolt dia.
(c) when installed against wood surfaces, shall have standard washers (ASTM F436) under the heads and nuts.
5. Anchor Bolts:
(a) shall be installed at all exterior walls and all interior shear and/or bearing walls.
(b) shall be 5/8" diameter with 3x3x0.229" steel plate washers at shearwalls.
(c) shall be 5/8" diameter with 2x2x3/16" steel plate washers at non-shearwalls.
(d) shall have 7" minimum embedment. (Contractor to coordinate length of bolts with sill plate thicknesses).
(e) shall conform to ASTM F1554, Grade 36, UNO.
(f) shall not be spaced greater than 72" oc Refer to shearwall schedule for specific anchor bolt spacing requirements.
(g) shall be placed a maximum of 12" from wall corners, wall ends, and sill plate splices (but not less than 7 dia.), and a min. of two bolts per piece of sill plate is required.
(h) shall be secured in place prior to foundation inspection.
(i) shall have a minimum edge distance of 1-3/4", UNO per plans and details.
6. Anchor Rods:
(a) shall be fully threaded, UNO.
(b) shall have 12" minimum embedment, UNO. (Contractor to coordinate length of bolts with min. projection above connected parts).
(c) shall be heavy hex headed or terminate w/ double nut and washer per details, UNO.
(d) shall conform to ASTM F1554, Grade 36, UNO.
(e) shall be secured in place prior to foundation inspection.
(f) shall have a minimum edge distance of 1-3/4", UNO per plans and details.
7. Powder Actuated Shot Pins:
(a) shall be installed at all interior non-bearing, non-shearwalls.
(b) shall conform to ICC ESR-2138, or equivalent.
(c) shall be 0.157x3" with 1.5" diameter steel washers, UNO.
(d) shall mechanically galvanized when installed in preservative-treated or fire-retardant-treated wood.
(e) shall not be spaced greater than 32" o.c.



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CIVIL • STRUCTURAL

ENGINEER OF RECORD:



03/30/2026

Nevada County Homekey + Auburn Residence
13668 Auburn Rd.
Grass Valley, CA 95949

Table with 2 columns: REVISION, DATE, and Issued for Permit. Includes revision 03.30.2026.

PROJECT ENGINEER:
Arlene Castillo
(916) 790-3181 x217
arlene@ashleyvance.com

DATE: 03/30/2026 SHEET: NTS
AV JOB: 251477 SHEET SIZE: 24"x36"

STRUCTURAL SPECIFICATIONS
JOB SET
S-1.2

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**Nevada County Homekey +
Auburn Residence**
13668 Auburn Rd.
Grass Valley, CA 95949

REVISION:

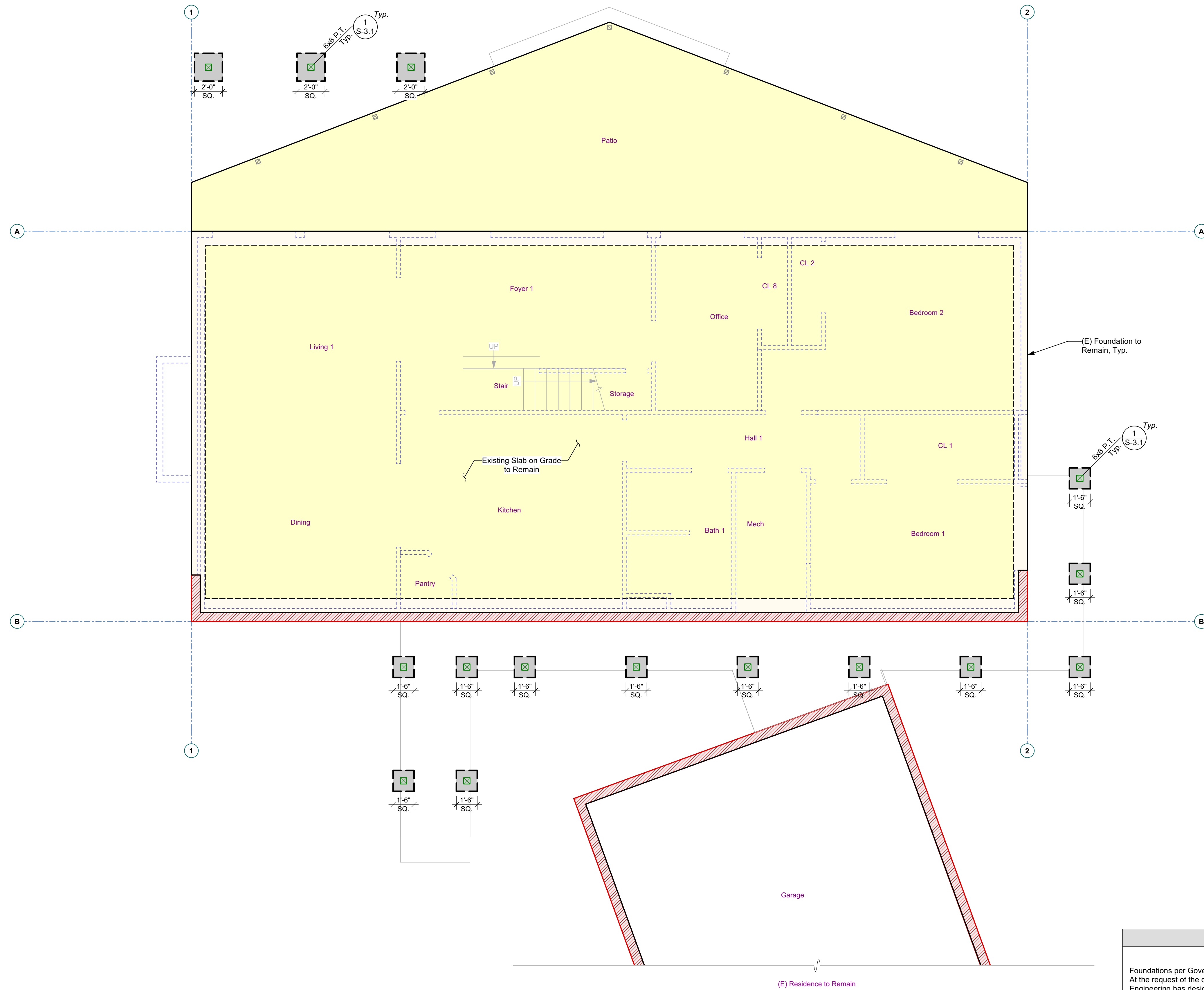
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FOUNDATION PLAN

**JOB SET
S-2.1**



GENERAL FOUNDATION NOTES

Foundations per Governing Building Code, Table 1806.2
At the request of the client (or client's agent), Ashley & Vance Engineering has designed the foundations in conformance with Table 1806.2. If the building official determines that expansive soils are present, or other geologic issues of concern, then they may require that special provisions be made to the foundation design to safeguard against damage due to the expansiveness or due to other geologic issues. If this becomes the situation, all foundation construction must be halted and the client, at their own expense, shall: (a) obtain a soils report prepared by a Soils Engineer licensed in the state of the project; (b) commission Ashley & Vance Engineering to revise the foundation plans and details, and framing plans if necessary, to reflect the recommendations of the soils report; (c) submit the revised plans to the Building Department for approval.

See General Notes & Specifications for additional requirements and material specifications.
All dimensions per Architectural plans
Contractor to VERIFY all dimensions w/ Architectural plans PRIOR to commencement of construction.

(E) Foundation to Remain

(E) Slab-on-Grade to Remain

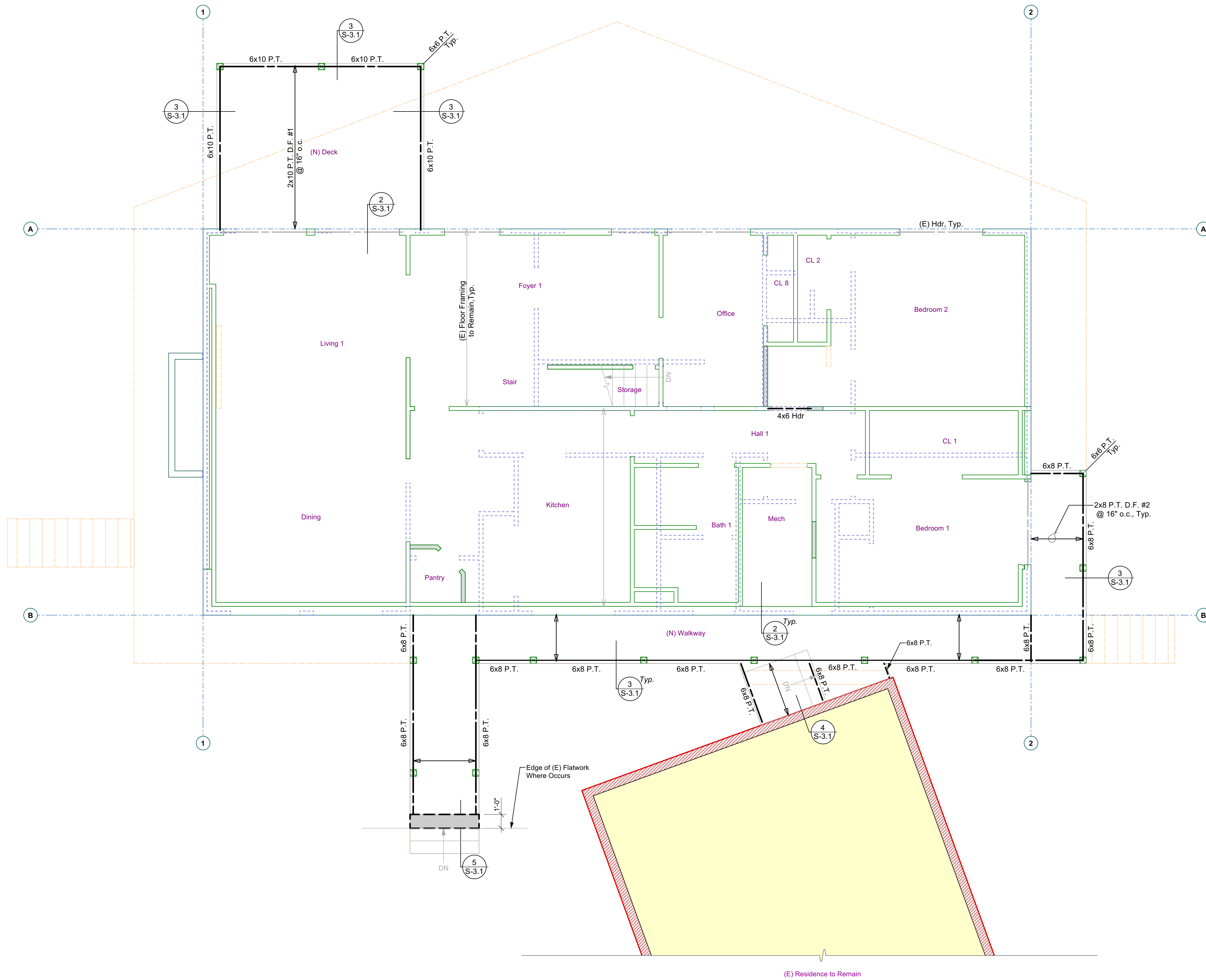
Foundation per Details
12" Wide (UNO)

(N) Pad Foundation per Details
Dimensions per Plan

Wood Framed Wall Above (See S-2.2)



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WALL SCHEDULE	
Stud wall locations per Architecturals.	
(E) Wood-Framed Wall to be Removed (See Arch.)	
(E) Wood-Framed Wall to Remain	
(N) Wood-Framed Wall, Thk. per Arch.	
2x4 Min. DF Stud @ 16"oc, @ Interior Walls	
All Walls to have Continuous Double Top Plates, All Splices to be per Detail 7/S-1.1	
Walls above (shown for clarity)	

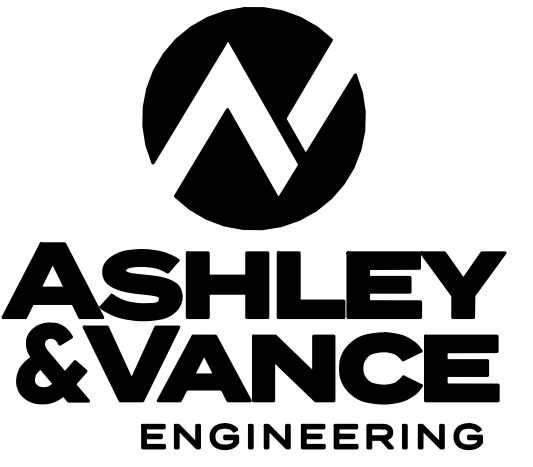
GENERAL FRAMING NOTES	
Beams (per Call-out)	
All Lumber 4x6, 6x6 and Smaller to be DF #2 UNO All Lumber 4x8, 6x8 and Larger to be DF #1 UNO	
All Beams to Bear on Plates w/ Indicated Post or Doubler Below UNO	
All Hangers Shall be Installed w/ Max. Nailing per Mfr. & Sized for Full Width & Depth of Supported Members, UNO	
Provide wall length continuous full depth solid blocking (where floor joists perpendicular) or double floor joist (where joists parallel) for all walls above.	
(N) Deck Joists -- 2x8 P.T. D.F. #2 @ 24" oc in Simpson LUS Hangers to Fit (UNO)	
(E) Framing (to Remain)	
Waterproofing, flashing, & finish details per Architecturals.	
See General Notes & Specifications for additional requirements and material specifications.	
All dimensions per Architectural plans	
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**2ND FLOOR
FRAMING PLAN**
**JOB SET
S-2.2**



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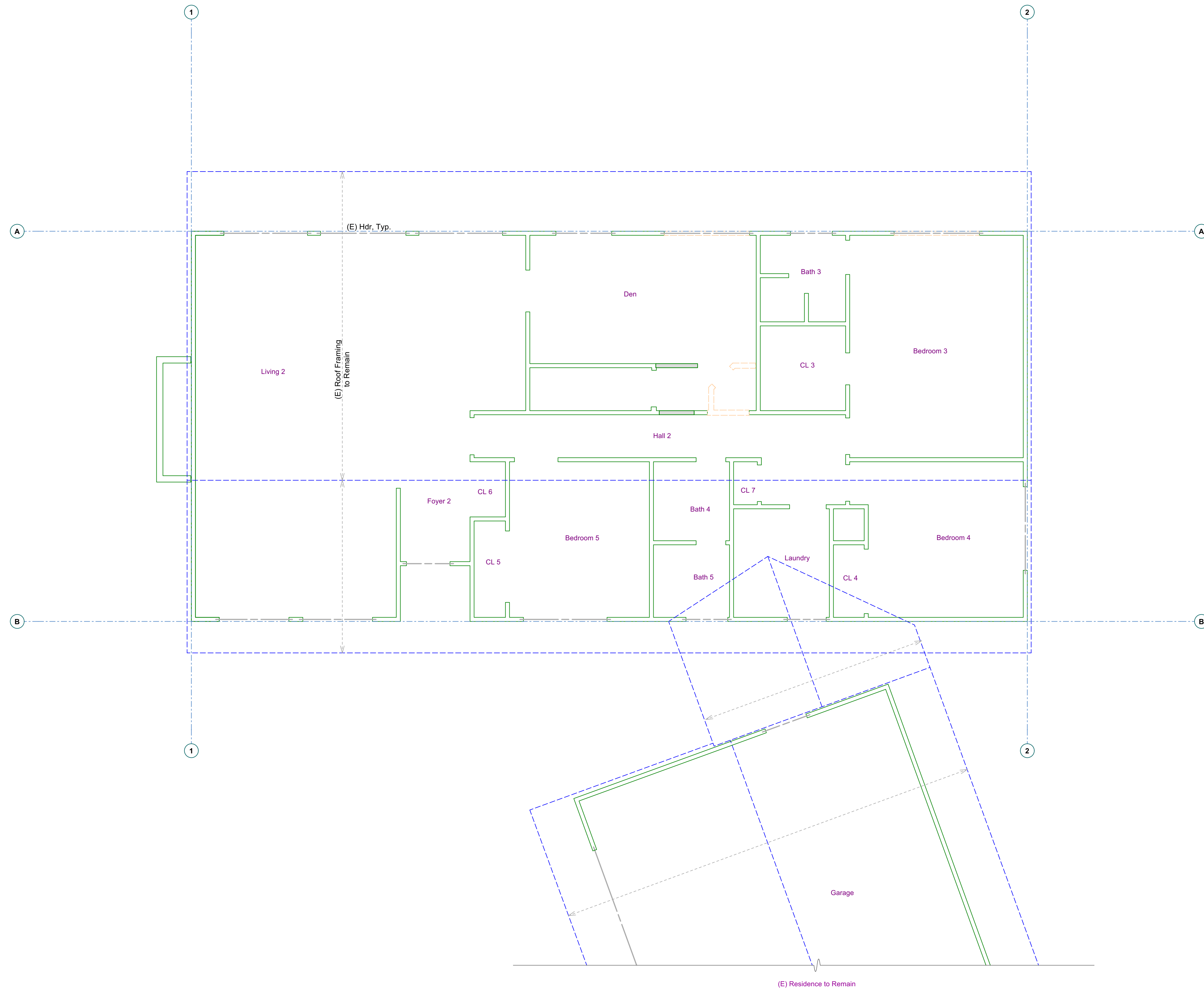
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WALL SCHEDULE	
Stud wall locations per Architecturals.	
(E) Wood-Framed Wall to be Removed	(See Arch.)
(E) Wood-Framed Wall to Remain	
(N) Wood-Framed Wall, Thk. per Arch.	
2x4 Min. DF Stud @ 16" oc. @ Interior Walls	
All Walls to have Continuous Double Top Plates. All Splices to be per Detail 7/S-1.1	

GENERAL FRAMING NOTES

Beams (per Call-out)

All Lumber 4x6, 6x6 and Smaller to be DF #2 UNO
All Lumber 4x8, 6x8 and Larger to be DF #1 UNO
All Beams to Bear on Plates w/ Indicated Post or Doubler Below UNO
All Hangers Shall be Installed w/ Max. Nailing per Mfr. & Sized for Full Width & Depth of Supported Members, UNO
(E) Framing (to Remain)

Waterproofing, flashing, & finish details per Architecturals.

See General Notes & Specifications for additional requirements and material specifications.

All dimensions per Architectural plans
Contractor to VERIFY all dimensions w/ Architectural plans PRIOR to commencement of construction.

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ROOF FRAMING
PLAN
JOB SET
S-2.3

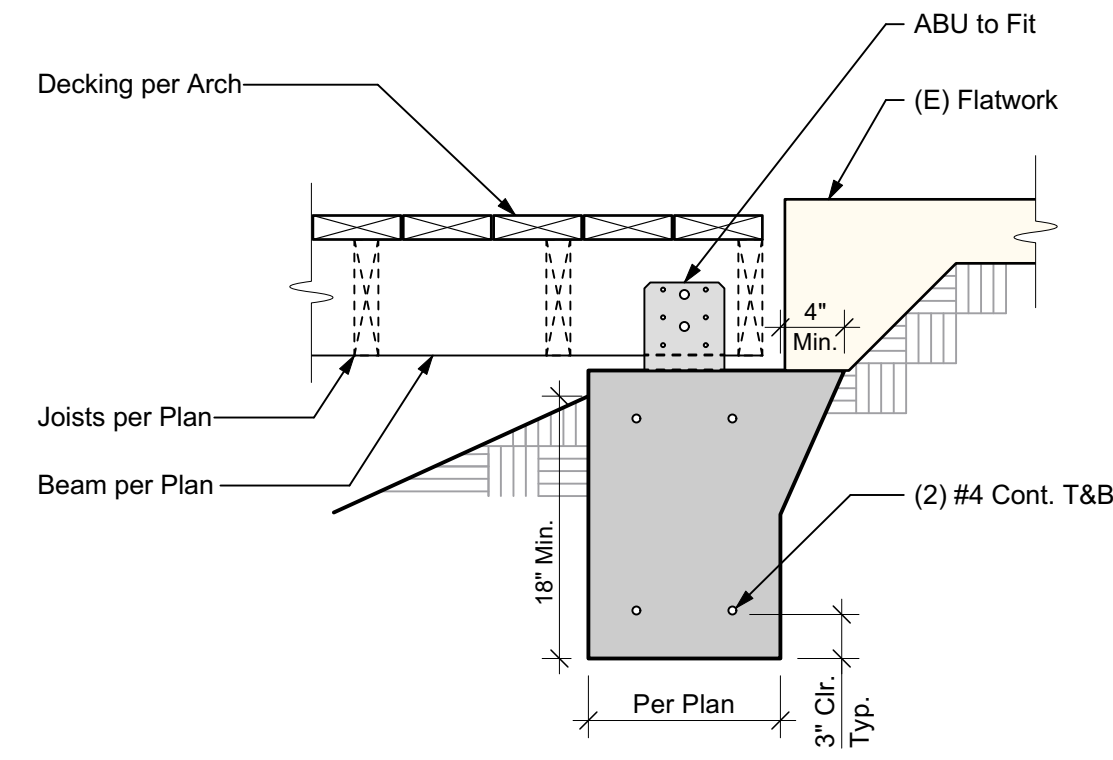
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17 NOT USED

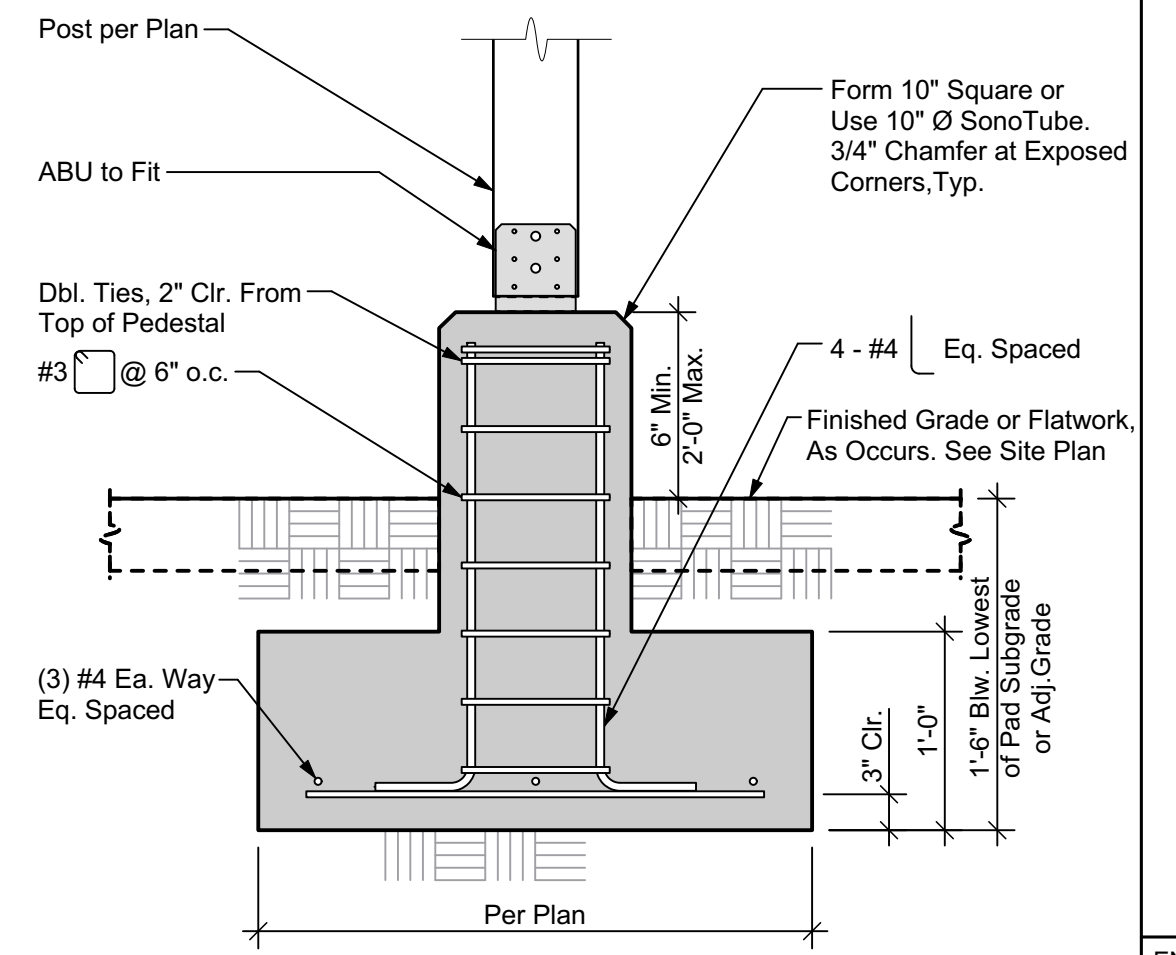
13 NOT USED

9 NOT USED

5 TYPICAL DECK STAIR



1 TYPICAL DECK PAD FOOTING



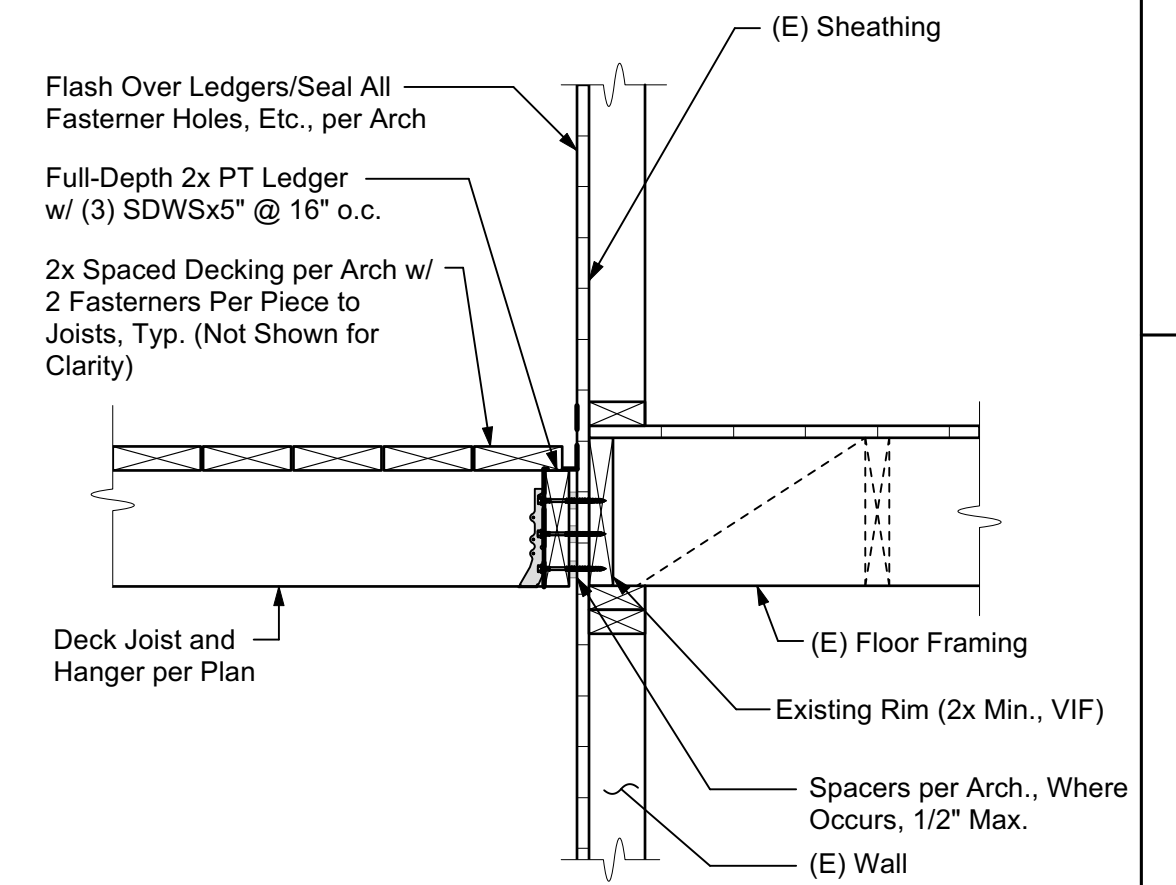
18 NOT USED

14 NOT USED

10 NOT USED

6 NOT USED

2 DECK FRAMING AT EXTERIOR WALL



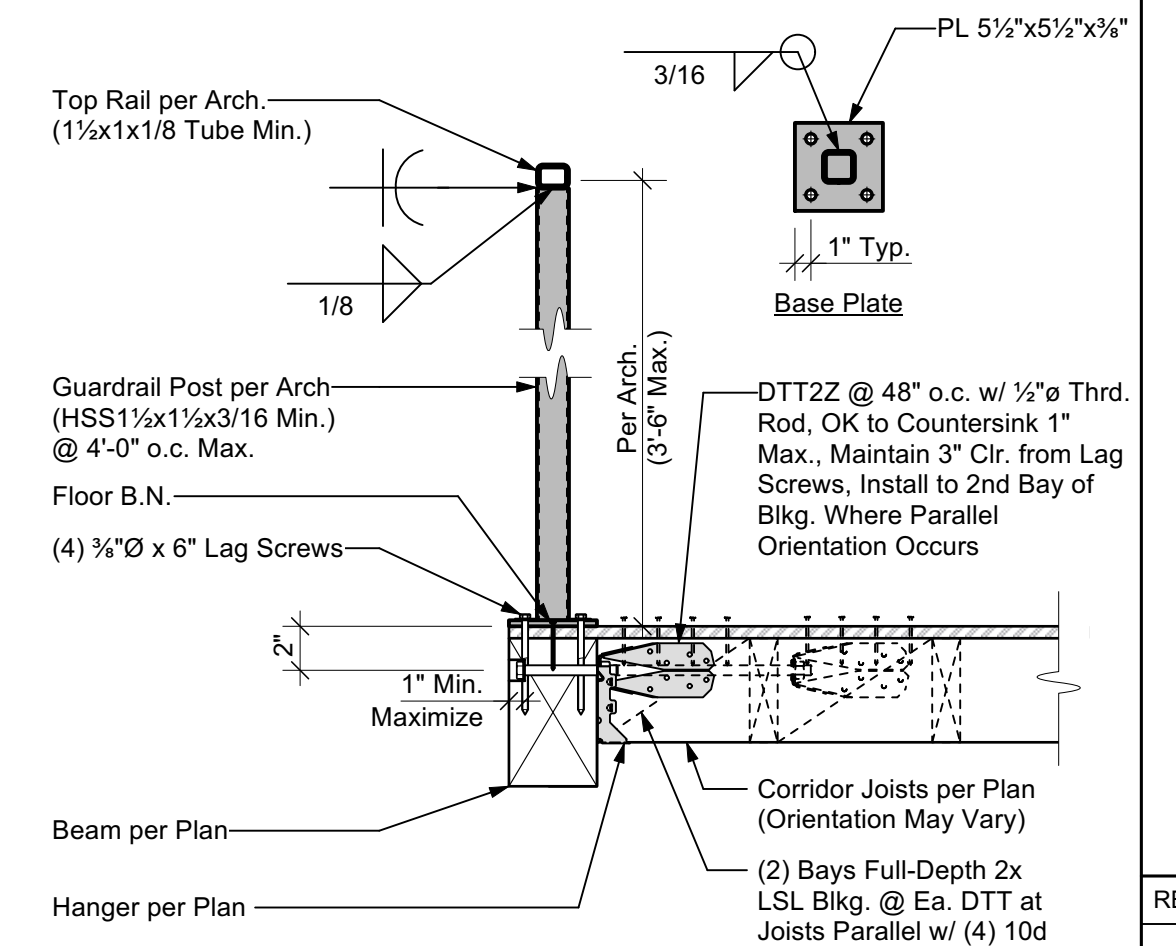
19 NOT USED

15 NOT USED

11 NOT USED

7 NOT USED

3 STEEL GUARDRAIL CONNECTION



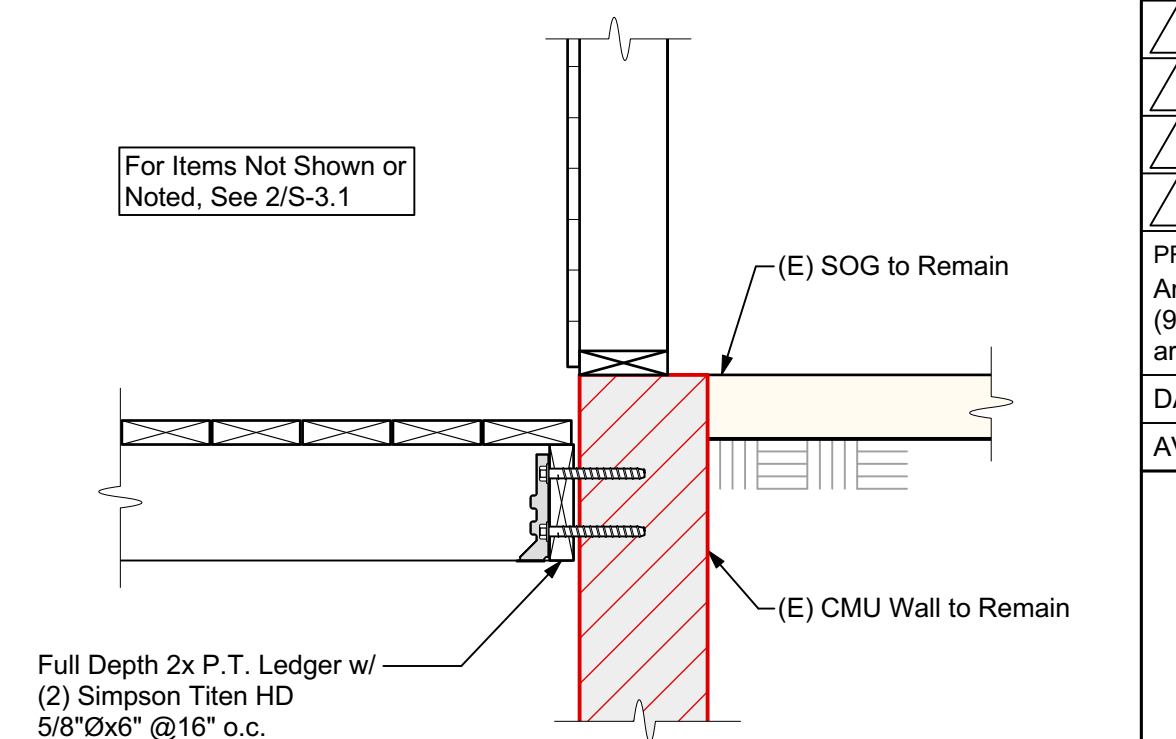
20 NOT USED

16 NOT USED

12 NOT USED

8 NOT USED

4 DECK FRAMING AT EXISTING CMU WALL



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STRUCTURAL DETAILS

JOB SET

S-3.1

DO NOT SCALE THESE DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS.

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RESIDENTIAL CALGREEN PLUMBING NOTES

- 1) ENHANCED DURABILITY AND REDUCED MAINTENANCE:
4.406.1 ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.
- 2) BUILDING MAINTENANCE AND OPERATION:
4.410.1 AN OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OCCUPANT OR OWNER
- 3) INDOOR WATER USE
A) PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) INSTALLED IN RESIDENTIAL BUILDINGS SHALL COMPLY WITH THE PRESCRIPTIVE REQUIREMENTS OF SECTIONS 4.303.1.1 THROUGH 4.303.1.4.4
B) PLUMBING FIXTURES AND FITTINGS REQUIRED IN SECTION 4.303.1 SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE REFERENCED STANDARDS.

PIPING SCHEDULE

TYPE	SIZE	JOINING METHOD	NOTES
SANITARY WASTE BELOW GRADE	ALL	SOLVENT	ABS
SANITARY WASTE ABOVE GRADE	ALL	SOLVENT	ABS
SANITARY VENT	ALL	SOLVENT	ABS
CONDENSATE PIPING	ALL	SOLVENT	PVC/CPVC
CONDENSATE PIPING EXPOSED	ALL	SOLVENT	PVC/CPVC (PROTECTED WITH WATER-BASED LATEX PAINT)
GAS PIPING BELOW GRADE	ALL	COMPRESSION	POLYETHYLENE
GAS PIPING ABOVE GRADE	ALL	THREADED	GALVANIZED STEEL
DOMESTIC WATER	ALL	95/5 SOLDER	TYPE "L" OR "K" COPPER W/SEISMIC BRACING
SANITARY WASTE/VENT	BELOW GRADE	SERVICE WEIGHT CAST IRON	NO-HUB COUPLING
	ABOVE GRADE	SERVICE WEIGHT CAST IRON	NO-HUB COUPLING

VALUE OPTION: (E) TANK WATER HEATER SCHEDULE

SYMBOL	MANU.	MODEL	LOCATION	RECOVERY AT 90°F ΔT	ENERGY FACTOR	CAPACITY (GAL)	VOLTAGE	REMARKS
WH-1	RHEEM	PROE50 T2 RH95	INTERIOR	21.0	0.95	50	240-1φ-60Hz	4.5KW, VALUE OPTION: EXISTING WH TO REMAIN

STANDARD OPTION: (N) HEAT PUMP TANK WATER HEATER SCHEDULE

SYMBOL	MANU.	MODEL NO.	LOCATION	SERVES	CAPACITY (GAL)	FIRST HOUR RATING (GPH)	INPUT (KW)	ELECTRICAL			WEIGHT (LBS)	REMARKS
								HP	VOLTAGE	AMPS		
HPWH-1	RHEEM	XE80T10HS45U1	INTERIOR CLOSET	RESIDENCE	80	87	(4.5)	-	230-1φ-60Hz	-	244	INSTALL TMV-1 TO ENSURE 120°F SETPOINT, REPLACE (E) WH LIKE-FOR-LIKE

PLUMBING FIXTURE SCHEDULE - SEE FLOOR PLAN FOR APPLICABLE FIXTURES

TAG	FIXTURE	TYPE	MOUNTING	MANU.	MODEL NO.	WATER SUPPLY			DRAIN		PIPE SIZES				REMARKS
						MANU.	MODEL NO.	MAX GPM/GPF	TYPE	SIZE	WASTE	VENT	CW	HW	
BT-1	BATHTUB/SHOWER	-	FLOOR		COORDINATE MODEL SELECTION WITH OWNER				P-TRAP	1-1/2"	1-1/2"	1-1/4"	1/2"	1/2"	
CW-1	CLOTHES WASHER	-	FLOOR		COORDINATE MODEL SELECTION WITH OWNER				P-TRAP	2"	2"	1-1/2"	1/2"	1/2"	
DW-1	DISHWASHER	RESIDENTIAL	UNDER COUNTER		COORDINATE MODEL SELECTION WITH OWNER				INDIRECT	1-1/2"	2"	1-1/2"	-	1/2"	SHALL COMPLY WITH UL 749
HB-1	HOSE BIBB	-	WALL	WOODFORD	26								1/2"	-	BACKFLOW PROTECTED, ASSE STANDARD 1052
LAV-1	LAVATORY (1X FAUCET MOUNTING HOLES)	METERED	UNDER COUNTER		COORDINATE MODEL SELECTION WITH OWNER	MOEN	WSL84733	1.2	P-TRAP	1-1/4"	1-1/2"	1-1/4"	1/2"	1/2"	OR EQUIVALENT, ADA COMPLIANT, BATTERY POWERED SENSOR ACTIVATED
	LAVATORY (3X FAUCET MOUNTING HOLES-CENTERSET)	METERED	UNDER COUNTER		COORDINATE MODEL SELECTION WITH OWNER	MOEN	WS84633SRN	1.2	P-TRAP	1-1/4"	1-1/2"	1-1/4"	1/2"	1/2"	OR EQUIVALENT, ADA COMPLIANT, BATTERY POWERED SENSOR ACTIVATED, PROVIDE 4" CENTERSET HOLES
SH-1	SHOWER	-	-		COORDINATE MODEL SELECTION WITH OWNER	DELTA ARVO	142840-SP-1	1.8	P-TRAP	2"	2"	1-1/2"	1/2"	1/2"	OR EQUIVALENT, ADA COMPLIANT
SK-1	SINK (1X FAUCET MOUNTING HOLES)	SINGLE COMPARTMENT	DROP-IN		COORDINATE MODEL SELECTION WITH OWNER	MOEN	7423	2.0	P-TRAP	1-1/2"	2"	1-1/2"	1/2"	1/2"	OR EQUIVALENT, INSTALL 3/4 HP COMPACT GARBAGE DISPOSAL
	SINK (3X FAUCET MOUNTING HOLES-WIDESPREAD)	SINGLE COMPARTMENT	DROP-IN		COORDINATE MODEL SELECTION WITH OWNER	MOEN	7425	2.0	P-TRAP	1-1/2"	2"	1-1/2"	1/2"	1/2"	OR EQUIVALENT, INSTALL 3/4 HP COMPACT GARBAGE DISPOSAL
SK-2	BAR SINK	METERED	UNDER COUNTER		COORDINATE MODEL SELECTION WITH OWNER	MOEN	7423	2.0	P-TRAP	1-1/2"	2"	1-1/2"	1/2"	1/2"	OR EQUIVALENT
TMV-1	THERMOSTATIC MIXING VALVE	-	-	WATTS	LFMMV-M1								1/2"	1/2"	ASSE STANDARD 1017, 1069, AND 1070 LISTED, 0.5-12 GPM FLOW RATING
WC-1	WATER CLOSET	GRAVITY	FLOOR	AMERICAN STANDARD	3378AB.128			1.28	INTEGRAL P-TRAP		3"	2"	1/2"	-	OR EQUIVALENT, ADA COMPLIANT, ELONGATED OPEN FRONT SEAT

NOTES: COORDINATE ALL TRIM AND ACCESSORY OPTIONS WITH OWNER EQUIVALENT FIXTURES ACCEPTABLE CONTINGENT ON OWNER APPROVAL

PLUMBING SCOPE OF WORK

- 1) DEMOLITION OF UPPER FLOOR KITCHEN PLUMBING FIXTURES. PLUMBING PIPES SHALL BE CAPPED AND SEALED OFF AT THE WALL
- 2) ADDITION OF NEW FIXTURES PER PLAN
- 3) RELOCATION OF (E) LOWER FLOOR KITCHEN SINK
- 4) REPLACE ALL PLUMBING FIXTURE FAUCETS, SHOWER HEAD FITTINGS, & WATER CLOSETS. (E) LAVATORY/SINK BOWLS/TUB & SHOWER BASINS TO REMAIN.
- 5) NO INCREASE TO OVERALL WATER DEMAND
- 6) VALUE OPTION: (E) WH TO REMAIN
STANDARD OPTION: (E) WH TO BE REPLACED BY (N) HPWH

PLUMBING LEGEND

- CW— COLD WATER
- HW— HOT WATER
- NG— NATURAL GAS
- SS SANITARY SEWER
- SSV SANITARY SEWER VENT
- VTR VENT THRU ROOF
- AFF ABOVE FINISHED FLOOR
- BF BELOW FLOOR
- FA, TB FROM ABOVE, TO BELOW
- FB, TA FROM BELOW, TO ABOVE
- FU FIXTURE UNITS
- GPM GALLONS PER MINUTE
- TMV THERMOSTATIC MIXING VALVE
- ⊕ POC - POINT OF CONNECTION
- ⊗ GAS POC
- ⊘ COLD WATER POC
- ⊙ CONDENSATE POC
- ⊕ CLEANOUT
- ⊕ HOSE BIBB
- ⊕ SHUT-OFF VALVE
- ⊕ PUMP



DATE SIGNED 05-01-26

AUBURN RESIDENCE
13668 AUBURN ROAD
GRASS VALLEY, CA. 95949

ISSUED FOR	DATE
PERMIT	04-02-26
PLAN CHECK #1	05-01-26

PROJECT NUMBER 25341

SHEET TITLE

PLUMBING GENERAL NOTES & SCHEDULES

SHEET NO.

P0

JOB SET

GENERAL NOTES

- 1) CONTRACTOR TO EXAMINE THE PROPOSED WORK SITE AND BECOME FAMILIAR WITH ALL JOB CONDITIONS AFFECTING THE WORK SHOWN. CONTRACTOR(S) SHALL FIELD-VERIFY SITE CONDITIONS INCLUDING LOCATIONS AND SIZES OF EXISTING PIPING, VALVES, CLEANOUTS, WASTE MAINS, GAS METERS, ETC., AND BIDS SHALL BE BASED ON ACTUAL FIELD CONDITIONS. NO ADDITIONAL ALLOWANCE WILL BE GRANTED DUE TO LACK OF KNOWLEDGE OF SITE CONDITIONS. ACCEPT SOLE AND COMPLETE RESPONSIBILITY FOR CONDITIONS OF THE JOBSITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.
- 2) DRAWINGS INDICATE DIAGRAMMATICALLY THE ARRANGEMENT OF PRINCIPAL APPARATUS, PIPING, DUCTWORK, AND OTHER MATERIAL. FOLLOW DRAWING AS CLOSELY AS POSSIBLE IN ORDER TO ACHIEVE A NEAT INSTALLATION WHILE STILL WORKING AROUND ANY OBSTRUCTIONS. INSPECT SITE CONDITIONS AFFECTING THE WORK AND PROVIDE FITTINGS AND ACCESSORIES AS REQUIRED TO MEET CONDITIONS WHETHER SHOWN OR NOT.
- 3) IT IS NOT THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL INCIDENTALS REQUIRED TO PROVIDE COMPLETE AND FULLY-OPERATIONAL SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION SHALL BE INCLUDED, WHETHER SPECIFICALLY SHOWN OR MENTIONED OR NOT. ENGINEER WILL PROVIDE INTERPRETATIONS UPON REQUEST.
- 4) ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE AUTHORITY(ES) HAVING JURISDICTION: 2025 CALIFORNIA BUILDING CODE, 2025 CALIFORNIA MECHANICAL CODE, 2025 CALIFORNIA PLUMBING CODE, 2025 CALIFORNIA ELECTRICAL CODE, 2025 CALIFORNIA ENERGY CODE (TITLE 24), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND ANY OTHER LOCAL CODES, ORDINANCES, REGULATIONS, OR AUTHORITIES HAVING JURISDICTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHER CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. THESE CODES SHALL DETERMINE MINIMUM REQUIREMENTS FOR MATERIALS, METHODS, AND LABOR PRACTICES NOT OTHERWISE DEFINED IN THESE SPECIFICATIONS.
- 5) DEFINITIONS:
 - a. WORK: LABOR AND MATERIALS OF THE CONTRACTOR AND/OR SUBCONTRACTOR.
 - b. FURNISH: OBTAIN, COORDINATE, SUBMIT THE NECESSARY DRAWINGS, DELIVER TO THE JOBSITE IN NEW CONDITION AND GUARANTEE.
 - c. PROVIDE: FURNISH AND INSTALL.
 - d. CONNECT: BRING SERVICE TO THE EQUIPMENT AND MAKE FINAL ATTACHMENTS INCLUDING NECESSARY PIPE FITTINGS, DUCTWORK, TRANSITIONS, ETC.
 - e. CONCEALED: HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, ABOVE CEILING, EMBEDDED IN CONSTRUCTION, IN CRAWL SPACES, OR BURIED.
 - f. EXPOSED: NOT INSTALLED UNDERGROUND OR CONCEALED AS DEFINED ABOVE.
 - g. PERFORMANCE: CONTRACTOR SHALL PERFORM ALL WORK SPECIFIED, INDICATED, AND REQUIRED UNLESS OTHERWISE NOTED, INCLUDING FINAL CONNECTIONS, IN A WORKMANLIKE MANNER USING WORKERS SKILLED AND EXPERIENCED IN THE TRADE. PIPES, FIXTURES, EQUIPMENT, GRILLES, REGISTERS, ETC. TO BE INSTALLED LEVEL, SQUARE, OR CENTERED, ETC. TO GIVE A NEAT APPEARANCE.
 - h. FULL FUNCTION: PROVIDE ALL MINOR ITEMS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL INSTALLATION.
- 6) CONTRACTOR SHALL CONFIRM ALL SITE VOLTAGES BEFORE BIDDING AND ORDERING EQUIPMENT. REIMBURSE ELECTRICAL CONTRACTOR, AT NO CHARGE TO CLIENT, FOR ELECTRICAL CONTRACTOR'S COST INCURRED DUE TO SUBSTITUTION OF MECHANICAL EQUIPMENT HAVING ELECTRICAL REQUIREMENTS DIFFERING FROM SITE CONDITIONS.
- 7) CONTRACTOR SHALL PROVIDE THE OWNER WITH COPIES OF OPERATION, MAINTENANCE, AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF PLUMBING AND MECHANICAL EQUIPMENT.
- 8) CONTRACTOR SHALL PROVIDE EVIDENCE OF LICENSING, BONDING, AND INSURANCE, AND PROVIDE OTHER NECESSARY ADMINISTRATIVE FUNCTIONS FOR CONTRACTOR'S WORK.
- 9) CONTRACTOR SHALL PROCURE AND PAY FOR ALL REQUIRED PERMITS AND SERVICE CHARGES.
- 10) COORDINATION: CONFORM TO GENERAL CONSTRUCTION CONTRACT DOCUMENTS EXCEPT AS MODIFIED HEREIN. REFER ALSO TO STRUCTURAL AND ELECTRICAL CONTRACT DOCUMENTS. COORDINATE ALL WORK WITH OTHER TRADES.
- 11) CUTTING AND PATCHING: CUT AND PATCH AS REQUIRED. CUT OR WELD STRUCTURAL MEMBERS ONLY WITH APPROVAL OF A STRUCTURAL ENGINEER. PATCHING SUBJECT TO ACCEPTANCE BY OWNER.
- 12) SAW CUT TRENCHES IN SLAB SHALL BE FULLY RESTORED AND REINFORCED TO PREVENT SAGGING. ROUGHEN SAW CUT EDGES PRIOR TO RE-POURING CONCRETE.
- 13) COORDINATE ALL WORK WITH OTHER TRADES TO PROVIDE A COMPLETE INSTALLATION. CONNECT ALL EQUIPMENT FURNISHED BY OTHERS AS REQUIRED. INSTALL ALL WORK TO CLEAR ARCHITECTURAL AND STRUCTURAL MEMBERS. INSTALL ALL ABOVE GRADE (OVERHEAD) PIPING AS HIGH AS PRACTICAL.
- 14) RESTORE ALL DAMAGE RESULTING FROM YOUR WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK. ADJUST, CLEAN, REPAIR, OR REPLACE PRODUCTS, WHICH HAVE BEEN DAMAGED.
- 15) GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR MINIMUM FROM DATE OF FILING NOTICE OF COMPLETION.
- 16) PROVIDE FLASHING AND COUNTER FLASHING FOR ALL WALL AND ROOF PENETRATIONS.
- 17) ADJUSTMENTS: MAKE MINOR ADJUSTMENTS TO WORK WHERE REQUESTED BY OWNER, WHEN SUCH ADJUSTMENTS ARE NECESSARY TO PROPER OPERATION AND WITHIN THE INTENT OF THE CONTRACT.
- 18) MATERIALS AND EQUIPMENT: PROVIDE NEW, UL-LISTED, COMMERCIAL-GRADE MATERIALS, DEVICES, EQUIPMENT, AND FIXTURES SUITABLE FOR THE ENVIRONMENT WHERE INSTALLED. REUSE EXISTING ONLY WHEN COMPLIANT WITH THE CONTRACT DOCUMENTS, IN GOOD CONDITION, AND APPROVED BY THE ENGINEER.
- 19) INSTALLATION: INSTALL ALL MATERIALS, EQUIPMENT, AND SYSTEMS IN FULL ACCORD WITH MANUFACTURER'S INSTRUCTIONS.
- 20) LAYOUT: INSTALL ALL PIPING AND DUCTWORK TO PRESENT A NEAT AND ORDERLY APPEARANCE. RUN ALL LINES PARALLEL WITH BUILDING CONSTRUCTION AS MUCH AS POSSIBLE. MAINTAIN HEADROOM, EQUIPMENT CLEARANCE, AND GRADIENT WHERE REQUIRED. ALLOW FOR EXPANSION & CONTRACTION.
- 21) ACCESS DOORS: PROVIDE ACCESS DOORS OR PANELS FOR ALL VALVES, CLEANOUTS, DAMPERS, CONTROLS, DEVICES, AND OTHER ITEMS REQUIRING INSPECTION OR MAINTENANCE.
- 22) START-UP: THOROUGHLY TEST AND DEMONSTRATE PROPER OPERATION OF ALL SYSTEMS AND EQUIPMENT MODIFIED, FURNISHED OR INSTALLED UNDER THIS CONTRACT.
- 23) WARRANTY: ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A MINIMUM OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT, AS WELL AS ANY DAMAGE FROM LEAKS VIA ROOF PENETRATIONS MADE AND SEALED UNDER CONTRACTOR'S SCOPE.
- 24) PATCHING & PAINTING: RESTORE ANY DAMAGE RESULTING FROM THE WORK AND LEAVE PREMISES CLEAN, ADJUST, CLEAN, REPAIR, AND/OR REPLACE ANY ITEMS DAMAGED BY THE WORK. RESTORE WALL AND ROOF PENETRATIONS TO MATCH SURROUNDING WALL OR ROOF, RESPECTIVELY.
- 25) AIR BALANCE: PROVIDE SERVICES NECESSARY TO VERIFY AIR QUANTITIES AND BALANCE FOR ESTABLISHED QUANTITIES AND UNIFORM TEMPERATURE IN THE SPACES SERVED. ADJUST ALL DAMPERS AND ELEMENTS IN GRILLES AND DIFFUSERS FOR PROPER AIR DISTRIBUTION AND TO MINIMIZE DRAFTS. COMPLY WITH SMACNA MANUAL FOR THE BALANCING AND ADJUSTMENT OF AIR DISTRIBUTION SYSTEMS.
- 26) DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARD.
- 27) ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPERS WITH ACCESSIBLE LOCKING TYPE QUADRANT.
- 28) HVAC EQUIPMENT SHALL BE CERTIFIED BY THE MANUFACTURER FOR COMPLIANCE WITH CALIFORNIA ENERGY COMMISSION STANDARDS.
- 29) DUCT SHALL MEET UL 181, CLASS I AND NFPA 90A AND 90B. DUCT SHALL BE INSTALLED STRAIGHT AND SUPPORT SPACING SHALL BE IN STRICT ACCORDANCE WITH "SMACNA HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE". FLEXIBLE DUCTWORK SHALL BE EXTENDED TO THE FULLEST POSSIBLE LENGTH, IN ORDER TO MINIMIZE PRESSURE DROP IN THE DUCT. EXCESS DUCT LENGTHS SHALL BE SHORTENED TO PREVENT UNNECESSARY CHANGES IN DIRECTIONS. WHERE ABRUPT CHANGES IN DIRECTION ARE UNAVOIDABLE USE ADJUSTABLE SHORT RADIUS SHEET METAL ELBOWS TO MAKE DIRECTION CHANGES. CONNECTIONS AT METAL DUCTS OR COLLARS SHALL BE MADE BY DRAW BANDS AND PRESSURE-SENSITIVE TAPE WITH THE DRAW BANDS TIGHTENED AS RECOMMENDED BY THE MANUFACTURER WITH AN ADJUSTABLE TENSIONING TOOL. USING PRESSURE-SENSITIVE TAPE ALONE WITHOUT DRAW BANDS IS NOT ACCEPTABLE. ALL PRESSURE-SENSITIVE TAPES AND MASTICS USED SHALL COMPLY WITH UL 181.
- 30) HVAC EQUIPMENT SHALL NOT BE OPERATED DURING CONSTRUCTION WITHOUT A FILTER INSTALLED TO PROTECT THE EVAPORATOR COIL. AFTER ALL CONSTRUCTION IS COMPLETED, ALL CONSTRUCTION FILTERS SHALL BE REMOVED AND NEW FILTERS SHALL BE INSTALLED.

RESIDENTIAL CALGREEN MECHANICAL NOTES

- 1) ENHANCED DURABILITY AND REDUCED MAINTENANCE:
 - 4.406.1 ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.
- 2) BUILDING MAINTENANCE AND OPERATION:
 - 4.410.1 AN OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OCCUPANT OR OWNER.
- 3) ENVIRONMENTAL QUALITY:
 - A) 4.503.1 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.
 - B) 4.504.1 DUCT OPENINGS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED DURING CONSTRUCTION.
 - C) 4.504.2.1 ADHESIVES, SEALANTS AND CAULKS SHALL BE COMPLIANT WITH VOC AND OTHER TOXIC COMPOUND LIMITS.
- 4) INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS:
 - A) 702.1 HVAC SYSTEM INSTALLERS ARE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS.
 - B) 702.2 SPECIAL INSPECTORS EMPLOYED BY THE ENFORCING AGENCY MUST BE QUALIFIED AND ABLE TO DEMONSTRATE COMPETENCE IN THE DISCIPLINE THEY ARE INSPECTING.
 - C) VERIFICATION OF COMPLIANCE WITH THIS CODE MAY INCLUDE CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY WHICH SHOW SUBSTANTIAL CONFORMANCE.

MECHANICAL SCOPE OF WORK

- 1) LIKE FOR LIKE REPLACEMENT OF (E) PACKAGE LENNOX UNIT. RECONNECT TO EXISTING UTILITIES AND DUCTWORK. ALL EXISTING DUCTWORK, GRILLES, AND DAMPERS TO REMAIN.
- 2) DEMOLITION AND CAPPING OF UPPER FLOOR KITCHEN RANGE/HOOD EXHAUST
- 3) INSTALLATION OF NEW LOWER FLOOR KITCHEN RANGE HOOD CONNECTED TO (E) KITCHEN EXHAUST RISER

(E) PACKAGED GAS/ELECTRIC SCHEDULE

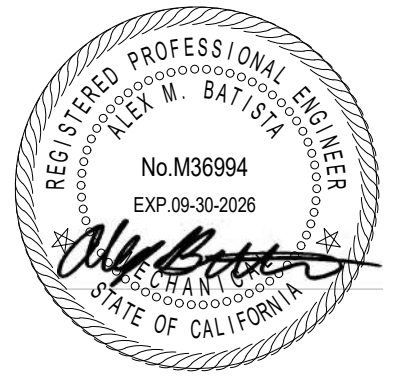
TAG	MANU	MODEL	LOCATION	SERVES	TONS	REF	SUPPLY FAN			COOLING					HEATING		CONDENSER		COMPRESSOR		CMB FAN		ELECTRICAL			SEER (EER)	AFUE	WEIGHT (LBS)	REMARKS
							CFM	ESP	FLA	TOTAL MBH	SENSIBLE MBH	EDB	EWB	AMB	INPUT MBH	OUTPUT MBH	QTY	FLA (EA)	QTY	RLA (EA)	FLA	V-φ-Hz	MCA	MOCP					
AC-1	LENNOX	GCS20R-511-125-2P	OUTSIDE	HOUSE	4.0	HCFC-22	1600	0.8"	0.6	48.0	38.4	80°F	67°F	105°F	125.0	100.0	1	2.0	1	23.7	7.0	230-1-60	39.0	60.0	12.45 (10.7)	78.3%	600	TO BE REPLACED	

(N) PACKAGED GAS/ELECTRIC SCHEDULE

TAG	MANU	MODEL	LOCATION	SERVES	TONS	REF	SUPPLY FAN			COOLING					HEATING		CONDENSER		COMPRESSOR		CMB FAN		ELECTRICAL			SEER2 (EER2)	AFUE	WEIGHT (LBS)	REMARKS
							CFM	ESP	FLA	TOTAL MBH	SENSIBLE MBH	EDB	EWB	AMB	INPUT MBH	OUTPUT MBH	QTY	FLA (EA)	QTY	RLA (EA)	FLA	V-φ-Hz	MCA	MOCP					
AC-1	LENNOX	LR13GEX48-126-EP-1-A	OUTSIDE	HOUSE	4.0	R-454B	1600	0.8"	6.0	48.0	38.4	80°F	67°F	105°F	126.0	102.1	1	1.7	1	18.0	-	230-1-60	30.3	45.0	13.4 (10.6)	81.0%	543.0	OR APPROVED EQUIVALENT. INSTALL UNIT WITH HORIZONTAL DISCHARGE CONFIGURATION TO MATCH EXISTING DUCTWORK. PROVIDE UNIT WITH R-454B REFRIGERANT (SAFETY GROUP A2L, HIGH PROBABILITY SYSTEM) AND FACTORY INTEGRAL REFRIGERANT LEAK DETECTION SENSOR & CONTROLS	

MECHANICAL LEGEND

- AC-1 THERMOSTAT
- CONDENSATE POC
- ELECTRICAL POC
- GAS POC
- WATER POC
- CEILING DIFFUSER (HARDLID)
- CEILING RETURN (HARDLID)
- SIDEWALL SUPPLY/RETURN
- POC - POINT OF CONNECTION
- TRANSITION
- DAMPER
- 50 CFM (4") AND 100 CFM (6") CEILING EXHAUST FANS
- DIAMETER
- CFM CUBIC FEET PER MINUTE
- FATB FROM ABOVE, TO BELOW
- FBTA FROM BELOW, TO ABOVE
- RA RETURN AIR
- SA SUPPLY AIR



DATE SIGNED 05-01-26

AUBURN RESIDENCE
13668 AUBURN ROAD
GRASS VALLEY, CA. 95949

ISSUED FOR	DATE
PERMIT	04-02-26
PLAN CHECK #1	05-01-26

PROJECT NUMBER 25341

SHEET TITLE
MECHANICAL GENERAL NOTES, & SCHEDULES

SHEET NO.
M0

JOB SET

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: 13668 Auburn Road
 Calculation Date/Time: 2026-03-31T09:45:41-07:00
 Input File Name: 25341 Russell Davidson Arch Nevada County Homekey-Auburn - E:\A_rbd\25341

GENERAL INFORMATION

01	Project Name	13668 Auburn Road
02	Run Title	Title 24 Analysis
03	Project Location	13668 Auburn Road
04	City	Grass Valley
05	Zip	95949
06	Climate Zone	1
07	Front Orientation (Mag/Cards)	138
08	Building Type	Single Family
09	Project Scope	Number of Dwelling Units: 1
10	Addition and/or Alteration	Number of Stories: 2
11	Addition Cond. Floor Area (ft ²)	22.42
12	Existing Cond. Floor Area (ft ²)	17
13	Total Cond. Floor Area (ft ²)	39.34
14	Existing Cooling Load (kW)	12.53%
15	ADU Bedroom Count	n/a
16	Fuel Type	Natural Gas
17	No Dwelling Units	no

COMPLIANCE RESULTS

Building Complies with Computer Performance
 This building incorporates features that require field testing and/or verification by a certified ECC rater under the supervision of a CE-approved ECC provider.
 This building incorporates one or more special features as shown below.

REQUIRED SPECIAL FEATURES

The following are features that must be installed in addition to meeting the modeled energy performance for this computer analysis:

- Window coverings and/or film
- Non-standard duct location (any location other than attic)
- Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater, specific brand/model, or equivalent, must be installed
- One or more heat pump water heaters have been modeled as demand response compatible

Registration Number: 426-P11009404A-000-000-0000000-0000
 Registration Date/Time: 04/01/2026 14:35
 ECC Provider: CHEERS
 80752: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) using information submitted by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, and cannot guarantee, the accuracy or completeness of the information contained in this document.
 CA Building Energy Efficiency Standards - 2025 Single-Family Compliance
 Report Version: 2025.0.000
 Scheme Version: rev 20250101
 Report Generated: 2026-03-31 09:45:58

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: 13668 Auburn Road
 Calculation Date/Time: 2026-03-31T09:45:41-07:00
 Input File Name: 25341 Russell Davidson Arch Nevada County Homekey-Auburn - E:\A_rbd\25341

OVERVIEW AND FINIS

01	02	03	04	05	06	07	08	09	10	11	12
Name	Zone	Construction	Admth	Orientation	Gross Area (ft ²)	Window and Door Area (ft ²)	Tilt (deg)	Wall Exceptions	Status	Verified Existing Condition	
E	Existing	Existing Wall (Exterior)	58	Left	483	107.8	90	none	Existing	No	
S 2	Existing	Existing Wall (Exterior)	148	Back	257	0	90	none	Existing	No	
W 2	Existing	Existing Wall (Exterior)	238	Right	481	154.02	90	none	Existing	No	
Roof R12	Existing	Existing Attic	n/a	n/a	528	n/a	n/a	none	Existing	No	
Roof R12	Existing	Existing Attic	n/a	n/a	884	n/a	n/a	none	Existing	No	
Raised Floor	Existing	R-39 Floor (no crawlspace)	n/a	n/a	54	n/a	n/a	none	Existing	No	
Underground Wall	Existing	Concrete Wall	n/a	n/a	561	n/a	n/a	none	Existing	No	
Interior Surface	Existing	Interior Floor	n/a	n/a	1545	n/a	n/a	none	Existing	No	

ATTIC

01	02	03	04	05	06	07	08a	09	10	11	12
Name	Construction	Type	Roof Rise (in 12)	CRCR Rated Roof Reflectance	CRCR Rated Roof Emittance	Radiant Barrier	Above Roof Deck Air Gap	Status	Verified Existing Condition		
Attic Existing	Attic Roof/Existing	Ventilated	5.83857	0.5	0.87	No	No	Existing	No		

FINISHING / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12
Name	Type	Surface	Orientation	Admth	Mult.	Area (ft ²)	U-factor	SHGC	Rating Source	Status	Verified Existing Condition
05 6936	Window	N	Front	328	1	21	0.28	0.45	NFRC	Altered	No
01 6540	Window	W	Right	238	1	24	0.28	0.45	NFRC	Altered	No
Door 02 8008	Window	W	Right	238	1	40.02	0.32	0.22	NFRC	Altered	No

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: 13668 Auburn Road
 Calculation Date/Time: 2026-03-31T09:45:41-07:00
 Input File Name: 25341 Russell Davidson Arch Nevada County Homekey-Auburn - E:\A_rbd\25341

OVERVIEW AND FINIS

01	02	03	04	05	06	07	08	09	10	11	12
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers	Non-Stud Spray Foam			
Attic Roof/Existing	Attic Roofs	Wood Framed Ceiling	2x6 @ 24 in. O.C.	R-0	None / 0	0.644	Roofing: Light Roof (Asphalt Shingles) Roof Deck: Wood Siding/Insulating/Dec King Cavity / Frame: no stud / 2x4				
Existing Attic	Ceilings (below attic)	Wood Framed Ceiling	2x6 @ 24 in. O.C.	R-22	None / None	0.043	Over Ceiling Insul: R-12.5 Insul. Cavity / Frame: R-19 / 2x4 Inside Finish: Gypsum Board				
R-39 Floor (no crawlspace)	Exterior Floors	Wood Framed Floor	2x12 @ 16 in. O.C.	R-19	None / None	0.046	Floor Surface: Carpeted Floor Deck: Wood Siding/Insulating/Dec King Cavity / Frame: R-19 / 2x12				
Interior Floor	Interior Floors	Wood Framed Floor	2x12 @ 16 in. O.C.	R-0	None / None	0.196	Floor Surface: Carpeted Floor Deck: Wood Siding/Insulating/Dec King Cavity / Frame: no stud / 2x12 Ceiling Below Finish: Gypsum Board				

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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ECC RATING SUMMARY

The following is a summary of the features that must be field-verified by a certified ECC Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional details is provided in the building tables below. Registered CF20s and CF30s are required to be completed in the ECC Registry.

Compliance Summary

Standard Design	Long-Term System Cost (LSC)		Source Energy Use	Peak Cooling**
	Efficiency (kBtu/ft ² -yr)	Total (kBtu/ft ² -yr)		
Proposed Design	22.28			
Compliance Margins	0.14			
Pass				

RESULT: Compliant

**Peak Cooling Target: 0.00 kWh/ft²-yr

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FINISHING / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12
Name	Type	Surface	Orientation	Admth	Mult.	Area (ft ²)	U-factor	SHGC	Rating Source	Status	Verified Existing Condition
02 4040	Window	W	Right	238	1	35	0.28	0.45	NFRC	Altered	No
03 6040	Window	W	Right	238	1	24	0.28	0.45	NFRC	Altered	No
04 6042	Window	W	Right	238	1	24	0.28	0.45	NFRC	Altered	No
10 6036	Window	W-3	Left	338	1	71	0.28	0.45	NFRC	Altered	No
11 3030	Window	E	Left	58	1	9	0.28	0.45	NFRC	Altered	No
12 6038	Window	E	Left	58	1	21	0.28	0.45	NFRC	Altered	No
13 5040	Window	E	Left	58	1	20	0.28	0.45	NFRC	Altered	No
14 5040	Window	E	Left	58	1	20	0.28	0.45	NFRC	Altered	No
Door 05 6050	Window	W-2	Right	238	1	30	0.28	0.45	NFRC	Altered	No
Door 01 6050	Window	W-2	Right	238	1	40.02	0.32	0.22	NFRC	Altered	No
07 6038	Window	W-2	Right	238	1	21	0.28	0.45	NFRC	Altered	No
08 4030	Window	W-2	Right	238	1	12	0.28	0.45	NFRC	Altered	No
20 6036	Window	W-2	Right	238	1	21	0.28	0.45	NFRC	Altered	No
09 3030	Window	W-2	Right	238	1	9	0.28	0.45	NFRC	Altered	No
21 6036	Window	W-2	Right	238	1	21	0.28	0.45	NFRC	Altered	No
Total North Facing Fenestration						0					
Total East Facing Fenestration						0					

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OVERVIEW AND FINIS

01	02	03	04	05	06	07	08	09	10	11	12
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers	Non-Stud Spray Foam			
Concrete Wall	Underground Walls	Concrete / CF / Brick	None	n/a	None / None	0.892	Inside Finish: Gypsum Board Mass Layer: 8 in. Concrete				

WATER HEATING SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	ECC Verification	Water Heater Name (H)	Status	Verified Existing Condition	Existing Water Heating System
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	None	n/a	DHW Heater 1 (L)	New	NA	

WATER HEATERS - HEAT PUMP

01	02	03	04	05	06	07	08	09	10
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Model	NEEA Heat Pump Model	Tank Location	Duct Inlet Air Source	Duct Outlet Air Source	UEE	JAI3 Compliant
DHW Heater 1	1	66	A. O. Smith	HPT-56 214 (66 gal, JAI3)	Conditioned	Existing	Existing	n/a	

HVAC - HEATING UNIT TYPES

01	02	03	04	05	06
Name	System Type	Number of Units	Heating Efficiency	Status	Verified Existing Condition
Heating Component 1	Packaged Gas Furnace	1	AFUE - 81	New	No

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LSC AND SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS

Energy Use	Standard Design Source Energy (kBtu/ft ² -yr)	Standard Design LSC (kBtu/ft ² -yr)	Proposed Design Source Energy (kBtu/ft ² -yr)	Proposed Design LSC (kBtu/ft ² -yr)	Compliance Margin Source (kBtu/ft ² -yr)	Compliance Margin LSC (kBtu/ft ² -yr)
Space Heating	0	13.11	0	15.57	0	-2.46
Space Cooling	0	5.62	0	5.17	0	0.45
IAQ Ventilation	0	0	0	0	0	0
Water Heating	0	3.89	0	1.54	0	2.35
Self Utilization/Utility Credits	n/a	n/a	n/a	0	n/a	0
Efficiency Compliance Total	0	22.42	0	22.88	0	0.14
Photovoltaics and Battery	n/a	n/a	n/a	0	n/a	0
Flexibility	n/a	n/a	n/a	n/a	n/a	n/a
Indoor Lighting	0	3.52	0	1.52	n/a	0
App. & Cooling	0	3.88	0	3.87	n/a	0.01
Plug Loads	0	5.96	0	5.96	n/a	0
Outdoor Lighting	0	0.42	0	0.42	n/a	0
TOTAL COMPLIANCE	0	34.2	0	34.05	0.15	

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FINISHING / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12
Name	Type	Surface	Orientation	Admth	Mult.	Area (ft ²)	U-factor	SHGC	Rating Source	Status	Verified Existing Condition
Total South Facing Fenestration											
Total West Facing Fenestration											

OVERVIEW AND FINIS

01	02	03	04	05	06	07	08	09	10	11	12
Name	Side of Building	Area (ft ²)	U-factor	Status	Verified Existing Condition	NFRC Rating Req.					
3068	W	20	0.5	Existing	No	No					
3068.2	E	20	0.5	Existing	No	No					
2868	E	17.8	0.5	Existing	No	No					

OVERVIEW AND FINIS

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Window	Width (ft)	Height (ft)	Depth	Dist Up	Left Extent	Right Extent	Flag Ht.	Depth	Top Up	Dist L	Dist R	Dist L	Dist R	Dist L	Dist R
01 0040	6	6.67	4.3	0.1	10	10	0	0	0	0	0	0	0	0	0
07 4036	6	3.5	4.3	0.1	10	10	0	0	0	0	0	0	0	0	0
08 4038	6	3	4.3	0.1	10	10	0	0	0	0	0	0	0	0	0
20 4036	6	3.5	4.3	0.1	10	10	0	0	0	0	0	0	0	0	0
09 3030	3	3	4.3	0.1	10	10	0	0	0	0	0	0	0	0	0
21 6036	6	3.5	4.3	0.1	10	10	0	0	0	0	0	0	0	0	0

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HVAC - COOLING UNIT TYPES

01	02	03	04	05	06	07	08	09	10
Name	System Type	Number of Units	Efficiency Metric	Efficiency Metric (EER/ESEER)	Efficiency Metric (SEER/SEER)	Airflow Target	Fan Power (Watt/CFM)	Status	Verified Existing Condition
Cooling Component 1	Central packaged AC	1	EER/SEER	10.8	13.4	0	0.4	New	No

HVAC - DISTRIBUTION SYSTEMS

01	02	03	04	05	06	07	08	09	10	11
Name	Type	Design Type	Duct Inl. R-value	Duct Location	Supply/Return	Supply	Return	Status	Verified Existing Condition	Existing Distribution System
Air Distribution System 1	Conditioned space-entirely	Non-Verified	n/a	Conditioned Zone	Conditioned Zone	Existing	No	n/a		

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2025 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Code must comply with applicable mandatory measures, regardless of the compliance approach used. Review the respective sections for more information.

Section	Requirement
§ 110.010.1	Space Conditioning Water Heating and Plumbing System: Certification, history, condition, and/or conditioning (HVAC) equipment, water heaters, and all other regulated appliances must be certified by the manufacturer in the California Energy Commission.
§ 110.010.2	Water Heating: Energy performance must meet applicable efficiency requirements in Tables 102.3 through 102.4.
§ 110.010.3	Controls for Heat Pumps with Supplemental Heaters: Heat pumps with supplemental heaters must have control requirements as specified in § 110.010.7 and § 110.010.9.
§ 110.010.4	Thermostat: All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat.
§ 110.010.5	Insulation: Cold-water service water heater storage tanks and solar water heating backup tanks must have adequate insulation, a tank surface heat loss rating.
§ 110.010.6	Insulation: Cold-water service water heaters with an input rating greater than 8.8 kW and heat (21 MW) must have adequate valves with hose bibbs or other fittings on both cold and hot water lines in areas for flushing the water heater when the valves are closed.
§ 110.010.7	Backflow Heat and Ventilation: Air-source heat pump water heaters must have backup heat (internal or external) if not air conditioned, unless compliance with the Heating Water Method of Exhaust from Reference Appendix J(A2) Heat pump water heater installation space and/or communicating space(s) must meet minimum volume, ducting, and/or grille net free area by duct or compressor capacity.
§ 110.010.8	Pilot Lights: Continuously burning pilot lights are prohibited for natural gas, fan-type ceramic furnace, room/whole cooking appliances, roomless appliances without electrical supply connection with pilot lights that consume less than 100 Btu/hour, and gas heaters.
§ 110.010.9	Building Cooling and Heating Loads: Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Loads, Applications, Volume, and Fundamentals Volume; the SMACNA Residential Control System Installation Standards Manual; or the ACCA Manual - Cooling Design conditions specified in § 110.010.11.
§ 110.010.10	Refrigerant: Air conditioning and heat pump condensing units must have a minimum of at least five feet from any dryer duct or line.
§ 110.010.11	Leak Detection: Air conditioning and heat pump systems must be equipped with liquid leak detectors if required, as specified by the manufacturer's installation.
§ 110.010.12	System Protection: Equipment safety and protection must meet the cooling and heating loads of § 110.010.11, and systems must be sized per ACCA Manual R-2022 with no minimum cooling capacity. Furnace heating capacity must meet ACCA Manual R. Heat pump heating capacity must meet minimum DOE requirements without reducing supplementary heat with fan or maximum heating capacity.
§ 110.010.13	Defrost: Invariable-adjustable defrost delay times must be set to greater than or equal to 30 minutes. CFZK certification required.
§ 110.010.14	Supplementary Heating Control Configuration: Heat pumps with supplementary heating must have controls to lock supplementary heating space outside air temperature no greater than 30°F, allowed during defrost or emergency operation. CFZK certification required.
§ 110.010.15	Energy Efficient Resistance Supplementary Heat: Water heating electric resistance heat must be lock supplementary heating heat must not exceed the heat pump nominal cooling capacity (at 60°F ambient conditions) multiplied by 2.7 kW per ton.
§ 110.010.16	Energy Efficient Resistance Supplementary Heat: Water heating electric resistance heat must be lock supplementary heating heat must not exceed the heat pump nominal cooling capacity (at 60°F ambient conditions) multiplied by 2.7 kW per ton.
§ 110.010.17	Thermostat: All heating or cooling systems including heat pumps which are not controlled by energy management control system (EMCS) must have a thermostat. Additional requirements for thermostats that control heat pumps with supplementary heating include: thermostat must display outdoor air temperature, must lock out supplementary heat when outdoor air temperature is above 35°F, and must allow supplemental heat to operate.
§ 110.010.18	Water Piping, Solar Water-Heating System Piping, and Space Conditioning System Insulation: All domestic hot water piping must be insulated as specified in the Plumbing Code.
§ 110.010.19	Insulation Protection: Piping insulation must be protected from damage, including from sunlight, moisture, equipment maintenance, and must be replaced if damaged. Piping insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected, a Class I or higher fire-resistance-rated insulation barrier that must be installed in a supported and non-combustible cavity or sleeve.
§ 110.010.20	Gas or Propane Water Heating Systems: Systems using gas or propane water heaters to serve individual dwelling units must meet the requirements of § 110.010.11, § 110.010.12, § 110.010.13, § 110.010.14, § 110.010.15, § 110.010.16, § 110.010.17, § 110.010.18, § 110.010.19, § 110.010.20, § 110.010.21, § 110.010.22, § 110.010.23, § 110.010.24, § 110.010.25, § 110.010.26, § 110.010.27, § 110.010.28, § 110.010.29, § 110.010.30, § 110.010.31, § 110.010.32, § 110.010.33, § 110.010.34, § 110.010.35, § 110.010.36, § 110.010.37, § 110.010.38, § 110.010.39, § 110.010.40, § 110.010.41, § 110.010.42, § 110.010.43, § 110.010.44, § 110.010.45, § 110.010.46, § 110.010.47, § 110.010.48, § 110.010.49, § 110.010.50, § 110.010.51, § 110.010.52, § 110.010.53, § 110.010.54, § 110.010.55, § 110.010.56, § 110.010.57, § 110.010.58, § 110.010.59, § 110.010.60, § 110.010.61, § 110.010.62, § 110.010.63, § 110.010.64, § 110.010.65, § 110.010.66, § 110.010.67, § 110.010.68, § 110.010.69, § 110.010.70, § 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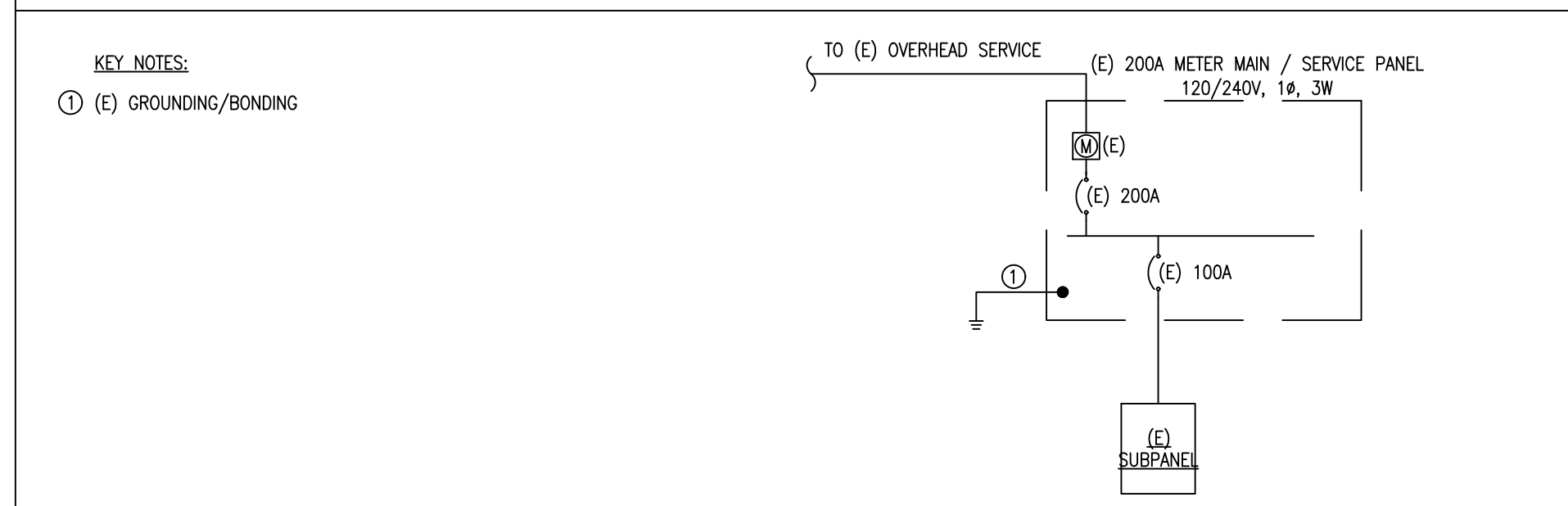
ELECTRICAL GENERAL NOTES

- ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE 2025 CALIFORNIA ELECTRICAL CODE, NATIONAL ELECTRICAL CODE, AND ALL STATE AND LOCAL CODES, RULES AND ORDINANCES HAVING JURISDICTION.
- ALL CONDUCTORS SHALL BE PER DESIGN SHEETS, ELECTRICAL CODE AND MAXIMUM VOLTAGE DROP OF 3% WILL DEFINE CONDUCTOR SIZING.
- CONDUITS SHALL BE USED IN THE FOLLOWING METHODS:
 - POLY VINYL CHLORIDE (PVC) CONDUITS MAY BE USED IN CONCRETE SLABS AND UNDERGROUND PROVIDED ELBOWS AND RISERS ARE RGS;
 - ALL EXPOSED CONDUIT SUBJECT TO WEAR OR COLLISION SHALL BE RIGID GALVANIZED STEEL (RGS) OR INTERMEDIATE METALLIC TUBING (MT). APPLY BITUMASTIC COATING TO ALL METALLIC CONDUITS IN SLABS OR UNDERGROUND.
 - PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL RACEWAY PENETRATIONS OF FIRE RATED CEILINGS, PARTITIONS, WALLS AND STRUCTURAL SLABS.
- FOR TELEPHONE SYSTEM: PROVIDE GROUNDING FOR ALL TELEPHONE BACKBOARDS, TERMINAL CABINETS AND EQUIPMENT PER REQUIREMENTS OF NEC 800 AND TELEPHONE COMPANY.
- ALL DISCONNECT SWITCHES SHALL BE SIZED PER NEC TO ACCOMMODATE EQUIPMENT SERVED, INCLUDING REQUIRED FUSES, U.N.O. SWITCHES SHALL BE HORSE POWER RATED, OF HEAVY DUTY TYPE. PROVIDE MEANS FOR PAD LOCKING IN THE OPEN POSITION.
- ALL CIRCUIT BREAKERS SHALL BE INVERSE TIME (THERMAL MAGNETIC) "PERMANENT TRIP" TYPE. TWO AND THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP.
- ALL CONNECTIONS TO GROUND RODS AND GRID, ETC., SHALL BE MADE WITH U.L. APPROVED WELDED CONNECTIONS, UNLESS NOTED OTHERWISE.
- LIGHTING SYSTEMS SHALL COMPLY WITH TITLE 24. ALL LIGHTING FIXTURES, LAMPS, BALLASTS, DIMMER SWITCHES, AND CONTROLS SHALL BE CERTIFIED WITH THE CALIFORNIA ENERGY COMMISSION ("CEC") AS MEETING ALL TITLE 24 REQUIREMENTS AND BE LISTED IN THE APPLICABLE CEC DIRECTORY. ALL SUCH DEVICES AND EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. LIGHT FIXTURES IN SUSPENDED CEILINGS SHALL BE SUPPORTED IN STRICT ACCORDANCE WITH CALIFORNIA BUILDING CODE (LATEST EDITION) SEISMIC REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED, FOR THE INTENDED USE, WITH UNDERWRITER'S LABORATORIES, INC. (UL), WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL. ALL EQUIPMENT SHALL BE RAIN TIGHT WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE METALLIC LIQUID TIGHT. ALL EQUIPMENT IN HAZARDOUS LOCATIONS, PER NEC, CHAPTER 5, SHALL BE IN ACCORDANCE WITH THE NEC. ALL EQUIPMENT IN CORROSIVE ENVIRONMENTS SHALL BE IN ENCLOSURES (SUCH AS NEMA 4X) RATED FOR THE ENVIRONMENT.
- UTILITY SERVICE AND REQUIREMENTS SHALL BE COORDINATED WITH POWER SERVICE WITH POWER COMPANY; PROVIDE FOR ALL STANDARD POWER COMPANY REQUIREMENTS. FAULT CURRENT RATINGS SHALL BE PROVIDED BY UTILITY.
- THE LAYOUTS OF THE CONTRACT DRAWINGS ARE DIAGRAMMATIC. IT IS NOT INTENDED TO SHOW EVERY OFFSET AND FITTING, NOR EVERY STRUCTURAL DIFFICULTY THAT WILL BE ENCOUNTERED DURING THE INSTALLATION OF THE WORK. ALIGNMENT OF EQUIPMENT AND ROUTING OF RACEWAYS MAY BE VARIED SLIGHTLY TO ACCOMMODATE ARCHITECTURAL CONDITIONS OR TO AVOID THE WORK OF OTHER TRADES. IF ANY CONFLICTS OCCUR NECESSITATING DEPARTURES FROM CONTRACT DRAWINGS, DETAILS OF DEPARTURES AND REASONS THEREFORE SHALL BE SUBMITTED AS SOON AS PRACTICABLE FOR WRITTEN APPROVAL OF THE ENGINEER.
- THE WORD "CONTRACTOR", AS USED IN THE ELECTRICAL CONTRACT DOCUMENTS, SHALL MEAN THE PRIME (I.E. GENERAL) CONTRACTOR AND HIS/HER SUBCONTRACTORS FOR THE APPROPRIATE TRADE. WHERE THE OWNER ACTS AS HIS OWN CONTRACTOR, THE WORD CONTRACTOR APPLIES TO THE OWNER.
- CONTRACTOR SHALL PROVIDE EVIDENCE OF LICENSING, BONDING, AND INSURANCE, AND PROVIDE OTHER NECESSARY ADMINISTRATIVE FUNCTIONS FOR CONTRACTOR'S WORK.
- CONTRACTOR SHALL PROCURE AND PAY FOR ALL REQUIRED PERMITS AND SERVICE CHARGES.
- COORDINATION: CONFORM TO GENERAL CONSTRUCTION CONTRACT DOCUMENTS EXCEPT AS MODIFIED HEREIN. REFER ALSO TO STRUCTURAL AND MECHANICAL CONTRACT DOCUMENTS. COORDINATE ALL WORK WITH OTHER TRADES.
- CUTTING AND PATCHING: ANY CUTTING, ATTACHING, OR WELDING TO BUILDING STRUCTURE SHOULD BE COORDINATED AND APPROVED BY A CALIFORNIA LICENSED STRUCTURAL ENGINEER. PATCHING SUBJECT TO ACCEPTANCE BY OWNER.
- SAW CUT TRENCHES IN SLAB SHALL BE FULLY RESTORED AND REINFORCED TO PREVENT SAGGING. ROUGHEN SAW CUT EDGES PRIOR TO RE-POURING CONCRETE.
- COORDINATE ALL WORK WITH OTHER TRADES TO PROVIDE A COMPLETE INSTALLATION. CONNECT ALL EQUIPMENT FURNISHED BY OTHERS AS REQUIRED. INSTALL ALL WORK TO CLEAR ARCHITECTURAL AND STRUCTURAL MEMBERS. INSTALL ALL ABOVE GRADE (OVERHEAD) PIPING AS HIGH AS PRACTICAL.
- RESTORE ALL DAMAGE RESULTING FROM THE WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK. ADJUST, CLEAN, REPAIR, OR REPLACE PRODUCTS, WHICH HAVE BEEN DAMAGED.
- PROVIDE FLASHING AND COUNTER FLASHING FOR ALL WALL AND ROOF PENETRATIONS.
- WARRANTY: ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A MINIMUM OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY WORK UNDER THIS CONTRACT, AS WELL AS ANY DAMAGE FROM LEAKS VIA ROOF PENETRATIONS MADE AND SEALED UNDER CONTRACTOR'S SCOPE.

RESIDENTIAL CALGREEN ELECTRICAL NOTES

- ENHANCED DURABILITY AND REDUCED MAINTENANCE:
 - 4.406.1 ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY
- BUILDING MAINTENANCE AND OPERATION:
 - 4.410.1 AN OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OCCUPANT OR OWNER
- SITE DEVELOPMENT:
 - 4.106.4 PROVIDE CAPABILITY FOR ELECTRIC VEHICLE CHARGING IN ONE- AND TWO-FAMILY DWELLINGS AND IN TOWNHOUSES WITH ATTACHED PRIVATE GARAGES; AND 10 PERCENT OF TOTAL PARKING SPACES, AS SPECIFIED, FOR MULTIFAMILY DWELLINGS.

ONE-LINE DIAGRAM



Panel Name:	A - Main Panel				Bus Rating:	200A			
Voltage & Phase:	120/240V - 1Ø - 3W				AIC Rating:				
Mounting:	Recessed				Main Type:	Circuit Breaker			
Enclosure Rating:	NEMA 3R				MCB Rating:	200A			
	Description	BRK	Ckt	PHASE	Ckt	BRK	Description		
	SPD		1	A	2				
	-		3	B	4				
			5	A	6				
			7	B	8				
			9	A	10				
			11	B	12				
	Range	50/2	13	A	14				
	-	-	15	B	16				
	House/A/C	60/2	17	A	18				
	-	-	19	B	20				
			21	A	22				
			23	B	24				
			25	A	26	100/2	Subpanel - B		
			27	B	28	-	-		
			29	A	30	40/2			
			31	B	32	-	-		

Panel Name:	B - Subpanel				Bus Rating:	100A			
Voltage & Phase:	120/240V - 1Ø - 3W				AIC Rating:				
Mounting:	Surface				Main Type:	Circuit Breaker			
Enclosure Rating:	NEMA 3R				MCB Rating:	100A			
	Description	BRK	Ckt	PHASE	Ckt	BRK	Description		
	(E) GFI Outlets	20/1	1	A	2	20/1	(E) Upstairs Outlets		
	(E) Upstairs Outlets	20/1	3	B	4	20/1	(E) Upstairs Lights		
	(E) Down Stairs Outlets	15/1	5	A	6	15/1	(E) Upstairs Bathroom Outlets		
	(E) Garage Lights - Door - Laundry-Bedroom #2	15/1	7	B	8	15/1	(E) Down Stairs Outlets + Plugs		
	(E) Upstairs Lights	15/1	9	A	10	20/1	(E) Fridge		
	(E) Kitchen + Dining Plugs	20/1	11	B	12	20/1	(E) Dishwasher		
	(E) Garbage Disposal	20/1	13	A	14	20/1	(E) Kitchen + Dining Plugs		
	(E) Washer	20/1	15	B	16	20/2	(E) Water Heater		
	(E) Pump	30/2	17	A	18	-	-		
	-	-	19	B	20	30/2	(E) Dryer		
	(E) Kitchen Plugs	20/1	21	A	22	-	-		
	(E) Bath Plugs	20/1	23	B	24				
			25	A	26				
			27	B	28				
			29	A	30				
			31	B	32				

ELECTRICAL SCOPE OF WORK

- DEMOLITION OF RECEPTACLES PER PLANS
- RELOCATION AND ADDITION OF LIGHTING FIXTURES PER PLANS. CONNECT TO EXISTING LIGHTING SYSTEMS AND ASSOCIATED POWER AND CONTROLS
- PROVIDE POWER FOR REPLACED HVAC UNIT, VERIFY EXISTING DISCONNECT/WIRING AND UPSIZE AS REQUIRED
- REPLACEMENT AND RELOCATION OF (E) ZINSCO SUBPANEL
- NO INCREASE TO OVERALL ELECTRICAL DEMAND

LIGHTING LEGEND

- DOWNLIGHT
- PENDANT LIGHT
- SURFACE MOUNT
- TRACK LIGHT
- WALL MOUNT FIXTURE
- WALL MOUNTED SWITCH (D- DIMMER, V- VACANCY SENSOR, 3- 3-WAY)

POWER LEGEND

- DUPLEX OUTLET - WALL, FLOOR, CEILING MOUNTED
- GFI - GROUND FAULT INTERRUPT
- WP - WEATHERPROOF +44" - 44" AFF
- FLOOR-MOUNTED DUPLEX OUTLET
- QUADRUPLUX OUTLET 16IN A.F.F. U.O.N.
- FLOOR-MOUNTED QUADRUPLUX OUTLET
- DEDICATED OUTLET
- 20A, 208/240V OUTLET (NEMA 6-20R)
- 30A, 208/240V OUTLET (NEMA 6-30R)
- PHONE-DATA PORT
- SMOKE DETECTOR
- CARBON MONOXIDE DETECTOR
- JUNCTION BOX
- TELEVISION
- DISCONNECT - POLES (CAPACITY/FUSE)
- LP-1,3,5
- HOME RUN - PANEL-POLE(S)
- POWER PANEL
- TRANSFORMER

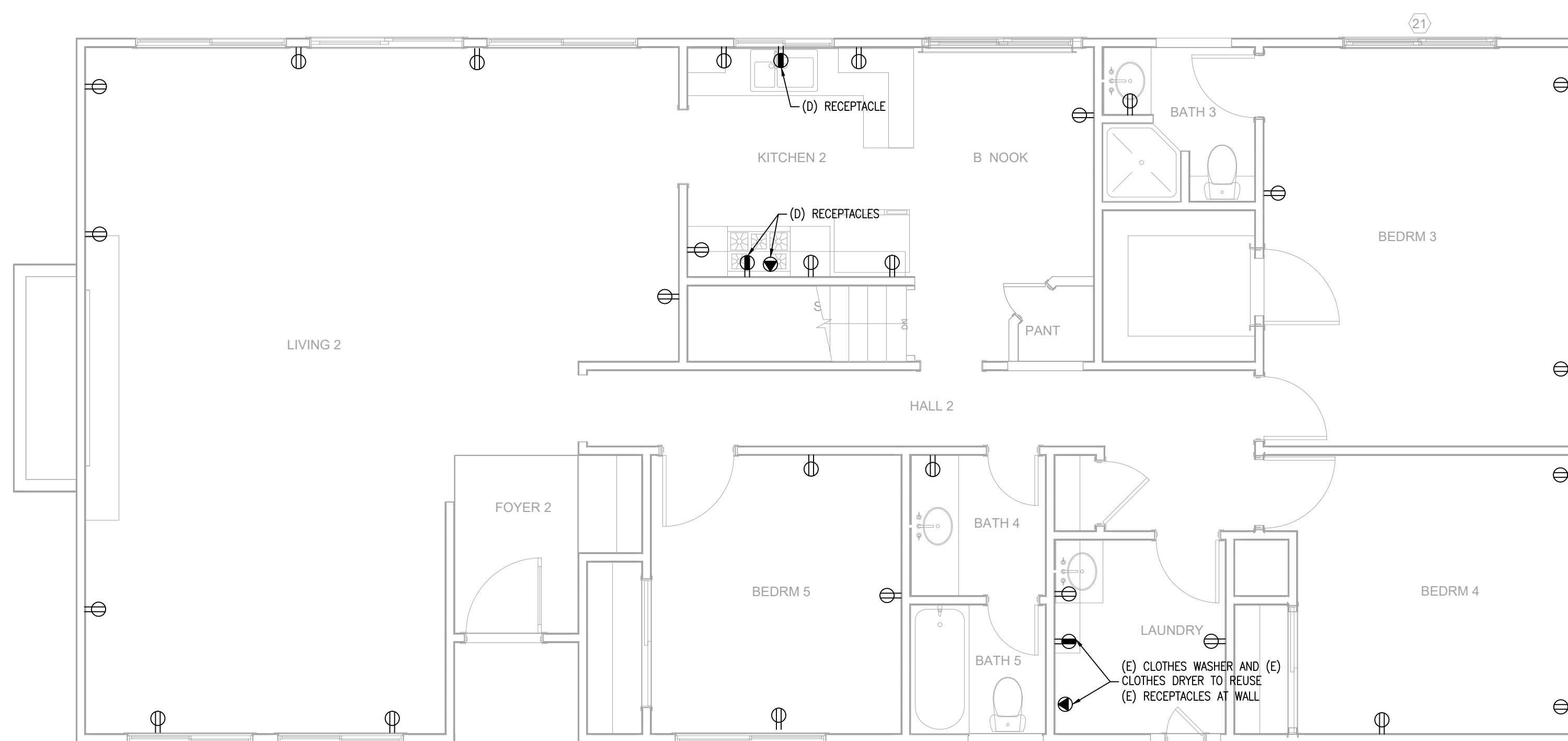
ELECTRICAL LEGEND

- A.F.F. ABOVE FINISHED FLOOR
- +48" HEIGHT (INCHES) AFF
- D DIMMER
- TX TRANSFORMER

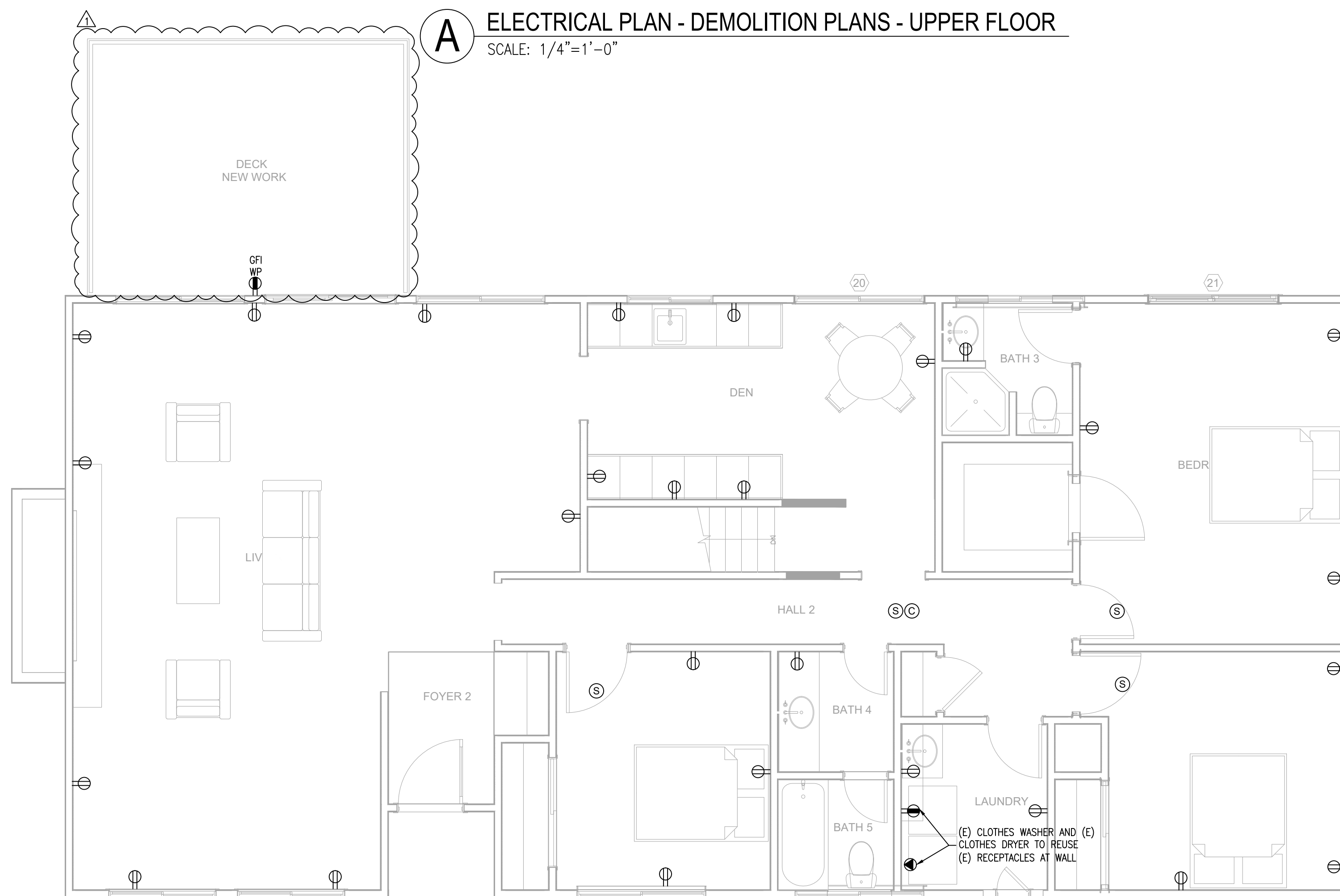
ISSUED FOR	DATE
PERMIT	04-02-26
PLAN CHECK #1	05-01-26
PROJECT NUMBER	25341

SHEET TITLE
ELECTRICAL GENERAL NOTES

SHEET NO.
E0



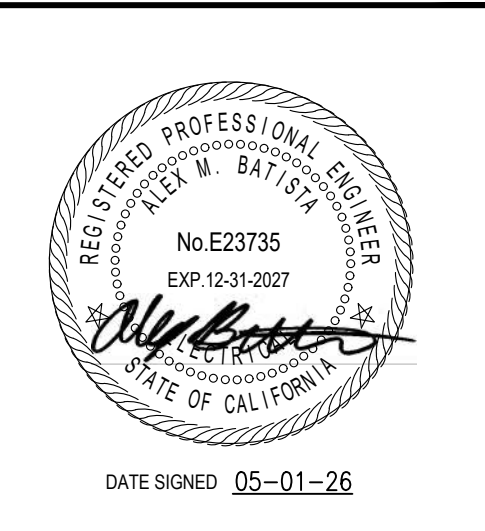
A ELECTRICAL PLAN - DEMOLITION PLANS - UPPER FLOOR
SCALE: 1/4"=1'-0"



B ELECTRICAL PLAN - NEW PLANS - UPPER FLOOR
SCALE: 1/4"=1'-0"



- SHEET NOTES:**
- (E) EXISTING
(N) NEW
(D) DEMO
 - ALL RECEPTACLES/EQUIPMENT ARE (E) TO REMAIN U.O.N.
 - ALL WIRING TO BE #12 AWG U.O.N.
 - ALL INTERIOR WIRING TO BE 2-CONDUCTOR, NON-METALLIC SHEATHED. ALL EXTERIOR WIRING TO BE INSULATED WITH THWN-2. ALL EXTERIOR CONDUIT SHALL BE FLEX CONDUIT ABOVE GROUND, OR PVC IF BELOW GROUND
 - SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS ARE TO BE HARDWIRED AND INTERCONNECTED AND HAVE A BATTERY BACKUP. SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS SHALL SOUND AN ALARM AND BE AUDIBLE IN ALL SLEEPING AREAS
 - ALL 120-VOLT, SINGLE PHASE, 15- & 20-AMP BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, DINING ROOMS, FAMILY ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, REC ROOMS, CLOSETS, LAUNDRY AREAS, HALLWAYS AND SIMILAR ROOMS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT PER CEC 210.12
 - NON-METALLIC SHEATHED CABLE SHALL BE SECURED BY STAPLES, CABLE TIES, STRAPS, HANGERS OR SIMILAR AT INTERVALS NOT EXCEEDING 4'-7/2" WITHIN 12" OF EACH CABINET, BOX OR FITTING. FLAT CABLES SHALL NOT BE STAPLED ON EDGE
 - ALL NEW 125-VOLT, 15 AND 20 AMP RECEPTACLES IN THE DWELLING ARE LISTED TAMPER-RESISTANT. CEC 406.12
 - ALL RECEPTACLES LOCATED IN BATHROOMS, GARAGES, OUTDOORS, CRAWLSPACES, UNFINISHED AREAS OF BASEMENTS, KITCHENS, BATHHOUSES, LAUNDRY AREAS, OR WITHIN 6FT OF SINKS, TUBS, OR SHOWERS TO HAVE GFI PROTECTION PER CEC 210.8(A)
 - PROVIDE AT LEAST TWO 20-AMPERE BRANCH CIRCUITS TO SERVE COUNTER TOP RECEPTACLES FOR SMALL KITCHEN APPLIANCES PER CEC 210.52(B)
 - RECEPTACLES IN DWELLINGS TO BE LOCATED PER CEC 210.52



AUBURN RESIDENCE
13668 AUBURN ROAD
GRASS VALLEY, CA. 95949

ISSUED FOR	DATE
PERMIT	04-02-26
PLAN CHECK #1	05-01-26
PROJECT NUMBER	25341

SHEET TITLE
ELECTRICAL PLAN - UPPER FLOOR

SHEET NO.
E2

JOB SET