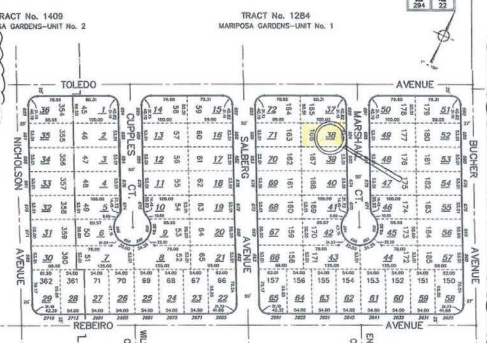
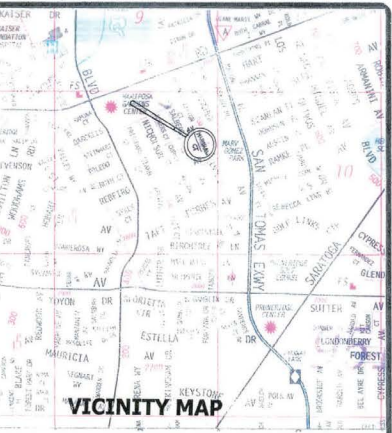


OFFICE OF COUNTY ASSESSOR - SANTA CLARA COUNTY, CALIFORNIA



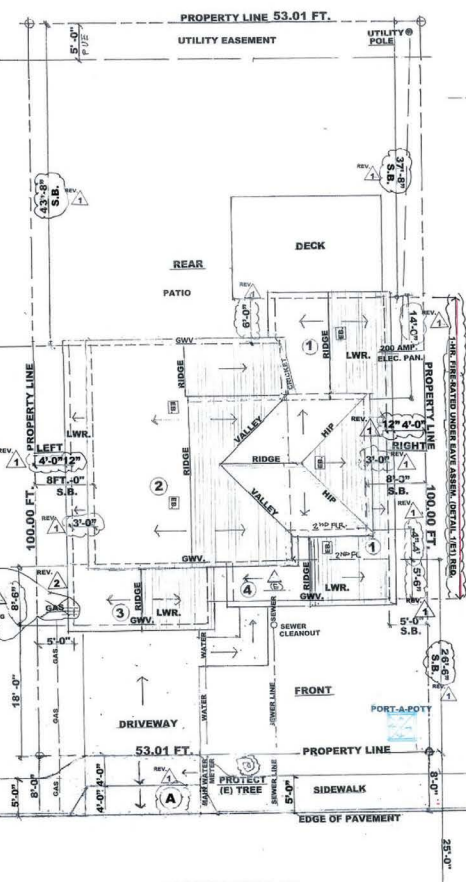
PLAN CHECK NOTES:

- EXISTING GAS METER SHALL BE REMOVED. GAS LINE PIPE SHALL BE CAPPED OFF PER REQUIREMENTS OF THE NATURAL GAS UTILITY PROVIDER. *DESIGNER MUST COORDINATE THIS REQUIREMENT WITH HOMEOWNER AND ENERGY CONSULTANT.
- DOE TO ADDITIONAL DEMAND ON WATER SUPPLY SYSTEM BY ADDING ADDITIONAL PLUMBING FIXTURES, THE EXISTING WATER SYSTEM MUST BE EVALUATED TO ENSURE SUFFICIENT WATER IS AVAILABLE. CPC 102.4 & 610.1.1.
- THE STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE A REVIEW LETTER (OR CONFORMANCE REVIEW STAMP) NOTING NO EXCEPTIONS REGARDING ROOF TRUSS PROFESSIONAL DESIGNER CALCULATION PACKAGES LOADING, SPACING OF TRUSSES, OVERALL LAYOUT, MEMBER'S DESIGN, TRUSS OVERALL DIMENSIONS, BEARING POINTS, SUPPORTING/ENDING CONDITIONS, AND LATERAL-FORCE RESISTING (DLR) (WHERE/APPLICABLE) THE TRUSS PACKAGE AND KEY PLAN MUST BE SUBMITTED TO THE BUILDING DEPT. BEFORE FABRICATION. SEE ATTACHED.
- NOTE: THE 2023 REACH CODES APPLY TO THIS PROJECT. THE OVERALL SCOPE OF CONSTRUCTION RESULTS IN A "NEW CONSTRUCTION" DETERMINATION, REGARDING APPLICABILITY OF CITY'S 2023 REACH CODES. THIS PROJECT.
- NEW WATER HEATER AND ALL SPACE HEATING SYSTEMS AS WELL AS KITCHEN STOVE, CLOTHES DRYER ARE TO BE ELECTRIC. ALSO, ENTIRE DUCTWORK OR DUCTED HVAC SYSTEMS ARE TO BE NEW.



REVISIONS	BY
REV 1	11-1-23 L-C
REV 2	2-8-24 LC

1-18-23
2-8-24
Lou Costanzo



PROPERTY OVERVIEW
684 MARSHALL CT, SANTA CLARA, CA 95051-9711

Owner and Geographic Information	
Primary Owner: SHAH-SANTOSH AND PHOENIXA (TRUSTEES)	Secondary Owner: 684 MARSHALL CT, SANTA CLARA
884 MARSHALL CT, SANTA CLARA, CA 95051-9711	884 MARSHALL CT, SANTA CLARA, CA 95051-9711
APN: 294-22-038	Lot Number: 100
Assessing Year Number: 2023	Page 7 of 8
Legal Description: 100	
Subdivision: MARPOSSA GARDENS	
Tract/Block: 238	
Legal Street Description: LOT 100 CITY OF SANTA CLARA (BAY AREA) MARPOSSA GARDENS TRACT 238 TR 100 LOTS 100-106	
City / Month / Year: SANTA CLARA	

Property Details

(E) Bedrooms: 3	(F) Year Built: 1954	Square Feet: 1,166
(L) Lot Area: 5,301	(G) Garage: 1	Lot Size: 5,301 SQ FT
(T) Total Rooms: 3	(H) Fireplaces: 0	Number of Units: 0
(Z) Zoning: R1	(I) Feet: 0	Use Code: Single Family Residential

1. EYEBROW ROOF VENT

- FIRST FLOOR: (1165.61 SF.)
- PROP. SECOND FLOOR: (975.32 SF.)
- ATTACHED GARAGE: (371.76 SF.)
- ENTRY PORCH: (137.50 SF.)

PARCEL DATA

1. PARCEL NO.:	294-22-038
2. YEAR BUILT:	1954
3. LOT SIZE:	5301.00 SF.
4. PROPOSED BUILDING:	TWO-STORY
5. SPRINKLER SYSTEM:	NONE
6. ZONING:	R1 SINGLE FAM. RES.
7. TYPE OF CONSTR.:	VB
8. GROUP OCCUPANCY:	R-3/U
9. LIVING SPACE:	
EXISTING 1ST. FLR:	1165.61 SF.
PROPOSED 2ND. FLR:	975.32 SF.
TOTAL LIVING: (E) + (N):	2140.93 SF.
EXISTING ATT. GARAGE:	371.76 SF.
ENTRY PORCH:	137.50 SF.
TOTAL:	2650.19 SF.
10. 1 ST . FLOOR LIVING: 1165.61 SF.	
EXIST'G GARAGE: 371.76 SF.	
(E) COV. PORCH: 137.50 SF.	
TOTAL:	1674.87 SF.
11. MAX. 2 ND . FLR S.F. ALLOWED: (1103.54 SF.)	
(1674.87 X .66% = 1103.54 SF.)	
975.32 - 1103.54 SF. = 0.8823 OR 88% OF ALLOW.	
12. F.A.R.:	
1674.87 SF. - 5301.61 SF. = 0.3160 OR 32%	
5301.00 SF. X .40% = 2120.04 SF. 1 ST . FLOOR	
(NO FIRST FLOOR ADDITIONS)	

SCOPE OF WORK - THE SANTOSH SHAH RESIDENCE - 7-31-2023

"NEW CONSTRUCTION" WALL ELECTRIC PROVISIONS, BUILDING PLAN (2023 CITY REACH CODES).

CONTRACTOR PROPOSES TO REMODEL 1ST. FLR (1165.61 SF.) RAISE CEILING TO 9FT-0" HT & CONSTR. 2ND FLOOR ADDITION (881.56 SF) WITH 8FT-0" CEILING HT. TOTAL LIV. 2147.17 SF.

REMODEL 1ST. FL. (E) BATH, KITCHEN, REMOVE BEDRM. 1, TO INCREASE FAMILY ROOM SIZE, LARGER MASTER BR W/ CLOSET, AND BUILD SWITCHBACK STAIRCASE TO PROPOSED 2ND. FLOOR ADDITION.

CONSTRUCT A 2ND. FLOOR ADDITION (881.56 SF.) WITH BEDROOMS 1 & 2 WITH CLOSETS, HALL BATH, MASTER BEDROOM WITH BATH & WALK-IN-CLOSET.

HOUSE WILL HAVE NEW HEATING AC, INSULATION, 50 YR COMPOSITION ROOF OVER MANUFACTURED ROOF TRUSSES, MFG. WEB FLOOR JOISTS, PLUMBING & ELECTRICAL W/ 200 AMP. E.P. UPDATED AS NEEDED, & STUCCO EXTERIOR.

(7) 1/2" LAYERS STUCCO W/ WIRE MESH @ 2" LAYERS "D" PAPER @ 1/2" COY. PL. W/ 1/2" FIBER GLASS INSUL. AND TRIM.

4. REPLACE WINDOWS/DOORS PER TITLE 24 ENERGY REPORT.

ALL WORK SHALL COMPLY WITH:

ALL APPLICABLE CALIFORNIA BUILDING STANDARDS CODES

BUILDING ENERGY EFFICIENCY TITLE STANDARDS 2022

CALIFORNIA MEASURES 2022

CBC CALIFORNIA BUILDING CODE 2022

CRC CALIFORNIA RESIDENTIAL BLD'G CODE 2022

CPC CALIFORNIA ELECTRICAL CODE 2022

CPC CALIFORNIA PLUMBING CODE 2022

CIC CALIFORNIA MECHANICAL CODE 2022

ASCE AMERICAN SOC. OF CIVIL ENGINEERS

ACI AMERICAN CONCRETE INSTITUTE

ALL LOCAL CODES, REGULATIONS, SETBACK REQUIREMENTS.

D. OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BUILDING INSPECTIONS, SUB-CONTRACTORS, WORKMANSHIP & SCHEDULES BECOME FAMILIAR WITH ALL SITE CONDITIONS INCLUDING (GRADES, DIMENSIONS & CONDITIONS), BEFORE STARTING CONSTRUCTION.

E. PLAN MAKER, NO PERMITS, PLAN MAKER TAKES NO LIABILITY! ALTHOUGH EVERY PRECAUTION IS TAKEN TO BE ACCURATE, DISCREPANCIES SHALL BE BROUGHT TO HIS ATTENTION FOR CORRECTION IN A TIMELY MANNER, WITH PLAN DELIVERY/ ACCEPTANCE TO HOMEOWNER, LIABILITY IS LIMITED TO FEES CHARGED FOR ARCH. SECTION ONLY.

ALL OTHERS: STRUCTURAL/CIVIL ENGINEERS SHALL CAUSE NO LIABILITY TO THE ARCH/PLAN DESIGNER.

APPROVAL STAMP

RESIDENTIAL HOUSE PLANS HOMES, REMODELS & ADDITIONS
LOU COSTANZO AND ASSOC. INC.
408 472-8025 (C) 408 264-0220 (O)
1501 SAN GABRIEL WAY, SAN JOSE, CA 95125
lcostanzo@cmrmas.net
PHILLIP SHENN P.E. CIVIL ENG.
TONY TRUONG P.E. STRUCTURAL ENG.
408 899-0220
FRI EMERZY, CONSULTANTS
NICK BIGNARDI
408 866-1620 408 866-1853
CAMPBELL CALIF.

PROPERTY OWNER:
SANTOSH SHAH 1-312 371-5325
ADDRESS:
648 MARSHALL CT., SANTA CLARA CA. 95050

INSPECTION IS REQUIRED FOR:

- SHEARWALL AND HOLD-DOWNS.
- HERS CERTIFICATION TO VERIFY ASSUMPTIONS IN THE MODEL...ENERGY CALCULATIONS TO BE REGISTERED, REQUIRED FOR THE FURNACE'S A/C DUCT SEALING, THERMOSTATIC EXPANSION VALVES, REFRIGERANT CHARGE, AIR FLOW MEASUREMENT, IAG, KITCHEN RANGE HOOD AND BUILDING ENVELOPE MEASUREMENTS. VERIFICATION AND DUCT LEAKAGE.

PLAN INDEX - THE SANTOSH SHAH RESIDENCE

A1	SITE PLAN/PARCEL DATA
T24-1	TITLE 2 REPORT
T24-2	TITLE 2 REPORT
GN	GENERAL PLAN NOTES 2019
BL	BLUEPRINT FOR A CLEAN BAY
CWM	CONSTRUCTION WASTE MANAGEMENT PLAN 2022
CMCM	CALIFORNIA MEASURES/CKLIST (SANTA CLARA)
E1	NOTES/DETAILS FOR REFERENCE
A2	EXISTING 1 ST . FLOOR PLAN
A2.1	DEMOLITION PLAN
A3	PROPOSED 1 ST . & 2 ND . STORY FLOOR PLAN
A3.1	FLOOR PLAN CALCULATIONS
A4	ELECTRICAL PLAN FOR 1 ST . & 2 ND . FLOOR
A5	SECTION: A-A
A5.1	SECTION: B-B
A6	ROOF/CEILING TRUSS LAYOUT (ADVANTAGE TRUSS CO. LLC)
A7	ELEVATIONS: FRONT & REAR
A8	ELEVATIONS: RIGHT & LEFT-SIDE
A9	EXIST'G ELEV.: FRONT, REAR, LEFT, RIGHT
A10	2019 CALIF. RES./ROOF VENTILATION ASSEM.
S8	STRUCTURAL NOTES AND DETAILS
S1	FOUNDATION 1 ST . FLR. SHEAR WALL/H.D. PLANS
S2	SECOND FLOOR AND LOWER ROOF FRAMING PLAN AND THE DOWN.
S1	ROOF FRAMING PLAN
S3	STRUCTURAL DETAILS
S4	STRUCTURAL DETAILS
S5	ONE-HOUR FIRE-RATED ASSEMBLY, WOOD-FRAME/WALL/FLOOR/CEILING

A REMODEL FOR 1ST. FLOOR & 2ND. STORY ADDITION FOR:
THE SANTOSH SHAH RESIDENCE
684 MARSHALL CT., SANTA CLARA CA. 95050
PLAN: LOU COSTANZO - 1501 SAN GABRIEL WAY, S.J., 95125 408-864-0220
STRUCTURAL ENGINEER: TONY TRUONG P.E. 408-899-0220

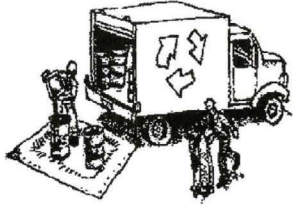
SITE PLAN

DESIGNED BY: LOU COSTANZO
CHECKED BY: S.C.
DATE: 7-18-23
SCALE: 1/8" = 1'-0"
JOB NO: S2023-B
SHEET: A1

Construction Best Management Practices (BMPs)

Construction projects are required to implement year-round stormwater BMPs.

Materials & Waste Management



Non-Hazardous Materials

- ❑ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or when they are not in use.
- ❑ Use (but don't overuse) reclaimed water for dust control.
- ❑ Ensure dust control water doesn't leave site or discharge to storm drains.

Hazardous Materials

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

Waste Management

- ❑ Cover and maintain dumpsters. Check frequently for leaks. Place dumpsters under roofs or cover with tarps or plastic sheeting secured around the outside of the dumpster. A plastic liner is recommended to prevent leaks. Never clean out a dumpster by hosing it down on the construction site.
- ❑ Place portable toilets away from storm drains. Make sure they are in good working order. Check frequently for leaks.
- ❑ Dispose of all wastes and demolition debris properly. Recycle materials and wastes that can be recycled, including solvents, water-based paints, vehicle fluids, broken asphalt and concrete, wood, and cleared vegetation.
- ❑ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.
- ❑ Keep site free of litter (e.g. lunch items, cigarette butts).
- ❑ Prevent litter from uncovered loads by covering loads that are being transported to and from site.

Construction Entrances and Perimeter

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

Equipment Management & Spill Control



Maintenance and Parking

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

Spill Prevention and Control

- ❑ Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- ❑ Maintain all vehicles and heavy equipment. Inspect frequently for and repair leaks. Use drip pans to catch leaks until repairs are made.
- ❑ Clean up leaks, drips and other spills immediately and dispose of cleanup materials properly.
- ❑ Use dry cleanup methods whenever possible (absorbent materials, cat litter and/or rags).
- ❑ Sweep up spilled dry materials immediately. Never attempt to "wash them away" with water, or bury them.
- ❑ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ❑ Report significant spills to the appropriate local spill response agencies immediately. If the spill poses a significant hazard to human health and safety, property or the environment, you must report it to the State Office of Emergency Services. (800) 852-7550 (24 hours).

Earthmoving



Grading and Earthwork

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

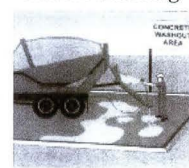
Contaminated Soils

- ❑ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
 - Unusual soil conditions, discoloration, or odor.
 - Abandoned underground tanks.
 - Abandoned wells
 - Buried barrels, debris, or trash.
- ❑ If the above conditions are observed, document any signs of potential contamination and clearly mark them so they are not disturbed by construction activities.

Landscaping

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

Concrete Management and Dewatering



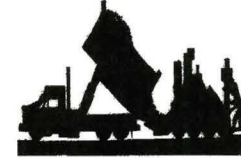
Concrete Management

- ❑ Store both dry and wet materials under cover, protected from rainfall and runoff and away from storm drains or waterways. Store materials off the ground, on pallets. Protect dry materials from wind.
- ❑ Wash down exposed aggregate concrete only when the wash water can (1) flow onto a dirt area; (2) drain onto a bermed surface from which it can be pumped and disposed of properly; or (3) block any storm drain inlets and vacuum washwater from the gutter. If possible, sweep first.
- ❑ Wash out concrete equipment/trucks offsite or in a designated washout area onsite, where the water will flow into a temporary waste pit, and make sure wash water does not leach into the underlying soil. (See CASQA Construction BMP Handbook for properly designed concrete washouts.)

Dewatering

- ❑ Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible, send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer, call your local wastewater treatment plant.
- ❑ Divert run-on water from offsite away from all disturbed areas.
- ❑ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ❑ In areas of known or suspected contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.

Paving/Asphalt Work



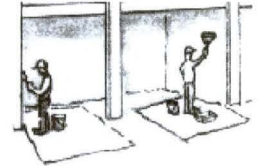
Paving

- ❑ Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- ❑ Cover storm drain inlets and manholes when applying seal coat, slurry seal, fog seal, or similar materials.
- ❑ Collect and recycle or properly dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.

Sawcutting & Asphalt/Concrete Removal

- ❑ Protect storm drain inlets during saw cutting.
- ❑ If saw cut slurry enters a catch basin, clean it up immediately.
- ❑ Shovel or vacuum saw cut slurry deposits and remove from the site. When making saw cuts, use as little water as possible. Sweep up, and properly dispose of all residues.

Painting & Paint Removal



Painting Cleanup and Removal

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



**Santa Clara Valley
Urban Runoff
Pollution Prevention Program**

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

[CRC 314.488, 315.586]

LIGHTING:

Electrical – Lighting:

- All installed lighting shall be high efficacy [CRC 150.00(A)].
- Under cabinet lighting must be switched separately from other lighting [CRC 150.00(A)(2)].

KITCHENS

Electrical – Lighting:

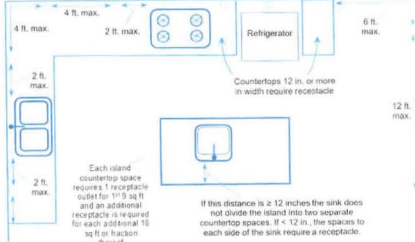
- All installed lighting shall be high efficacy [CRC 150.00(A)].
- Must be switched separately from other lighting [CRC 150.00(A)(2)].

Electrical – Branch Circuits:

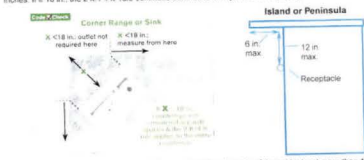
- A minimum of two 20-amp small appliance branch circuits are required to serve countertop and island receptacles in the kitchen, pantry and dining room [CRC 210.11(C)(1)]. No bulletin approvals are allowed on these circuits (except an electric clock or the ignition of a gas range).
- Individual (dedicated) circuits are required for garbage disposals, microwaves, compactors, and dishwashers [CRC 210.19(A)(1)].
- AFCI (arc-fault circuit-interrupter) protection is required for all 120V 15-A and 20-amp branch circuits supplying kitchen outlets or devices [CRC 210.12(A)].

Electrical – Receptacles:

- Receptacles shall be installed at each countertop space ≥ 12 in. in width. Receptacles shall be installed so that no point along the wall line is more than 24 inches horizontally from an outlet in that space [CRC 210.52(C)(1)].
- The maximum spacing between receptacles, measured on the wall-countertop line, is 48 inches.



- All receptacles serving kitchen countertop surfaces shall have GFCI protection [210.86(A)].
- Countertop receptacles shall not be installed in a face-up position [CRC 405.51(E)]. Listed "pop-up" receptacles are allowed [CRC 210.52(C)(2)]. Receptacles or outlets can be installed on the underside of the cabinet above the countertop if within 20 inches of the countertop.
- Dishwashers require GFCI protection, including 240-volt dishwashers [CRC 210.81(A)].
- All GFCI device controls must be in readily accessible locations. On-site testing a dishwasher are not readily accessible. GFCI protection can be provided by using a GFCI circuit breaker.
- All general purpose and countertop receptacles must be tamper resistant [CRC 406.12(A)].
- All 125-volt through 250-volt receptacles installed in kitchen countertops and within 6 ft of sink shall have ground-fault circuit-interrupter protection for personnel [CRC 210.8(A)].
- At least one receptacle required within 7 ft of the outer end of peninsula. A peninsula countertop shall be measured from the connected perpendicular wall [CRC 210.52(C)(2)].
- Receptacles shall not be installed in a face-up position in the area below a sink [CRC 405.52(G)].
- Corner sinks require a space on each side when the distance between the corner and the sink is < 18 inches. If 18 in. or 2 ft, 4 ft, side cabinets behind the sink [CRC 210.52(C)(3)].



- On islands and peninsulas only, receptacles are allowed on the side of the cabinet, not more than 12 inches below the countertop and with no overhanging countertop greater than 6 inches [CRC 210.52(C)(3)].
- An island or peninsula is considered divided into separate countertop spaces when a sink or range is installed and does not have 12 inches of space behind it. See the diagram on page 7.
- Bar-type counters are considered wall space. Wallspaces ≥ 2 ft require receptacles so that no portion of the wall is more than 4 ft from a receptacle outlet, measured at the floor/line [CRC 210.52(A)(1) & (2)].
- A range hood / microwave combination can be cord-and-plug connected if the circuit is an individual (dedicated) branch circuit. A receptacle outlet shall be a single type, not a duplex receptacle that would accept two plugs [CRC 422.16(B)(4)].

Kitchen Plumbing:

- Dishwashers shall be connected with an approved drainage air gap device located above the flood level rim of the sink [CRC 807.2].
- Newly installed kitchen faucets shall not exceed 1.8 gallons per minute (GPM) (3.0 L / 4.1). All existing plumbing fixtures not included in the scope of new work shall be replaced if necessary to comply with SB407 Plumbing Fixtures Replacement requirements – See "Water Conservation/Certification Form".
- A gas test is required on all piping modifications at least 10 PSI for 15 minutes. A maximum 15 PSI gauge is required for the gas test [CRC 1213.3].
- Gas lines that run under a sink shall run through an approved vented gas light conduit [CRC 1210.1.6].
- An accessible shutoff valve shall be installed outside each appliance and ahead of the unit connected thereto and in addition to any valve on the appliance [CRC 1212.6].
- Appliance gas flexible connectors shall be not and of minimum length but not to exceed 6 feet [CRC 1213.2].
- All hot water pipes require insulation to be at least the thickness of the pipe diameter [CRC 609.12, 809.12(2)].

Kitchen Mechanical:

- A mechanical permit is required to replace a kitchen exhaust hood that includes an outside air vent. The vent must terminate on the building exterior at least 3 ft from other openings into the building [CRC 502.2.1].
- A mechanical exhaust directly to the outdoors shall be provided in each kitchen. Range hoods exhaust rate shall be at least 100 CFM. Mechanical exhaust fans including down-draft appliances shall have exhaust rate at least 300 CFM [CRC 405.4, 405.4.1].
- A ducted residential exhaust hood is required and shall be constructed of metal with a smooth interior surface. Flexible (corrugated) ducting is not allowed for exhaust hoods. Provide back draft protection [CRC 504.1.1, 504.3].
- Minimum 30" vertical clearance above cooktop surface to combustibles or metal cabinets [CRC 502.3].

BATHROOMS

Bath Electrical:

- All installed lighting shall be high efficacy [CRC 150.00(A)].
- At least one light shall be controlled by a vacancy sensor (a manual-on, automatic-off occupancy sensor) [CRC 150.00(A)(2)].
- Exhaust fans must be switched separate from lighting, with the exception that lighting integral to an exhaust fan can be on the same switch if the fan is controlled by a humidistat that continues its operation after the light is off.
- All receptacle outlets in bathrooms shall be GFCI protected [CRC 210.8(A)(1)].
- All receptacle outlets in bathrooms shall be tamper resistant [CRC 405.12(A)].
- When a bathtub or shower stall is in an area not technically considered a bathroom (by the definitions in the electrical code), receptacles within 6 ft of the bathtub/shower stall must be GFCI protected [CRC 210.8(A)(3)].
- A receptacle outlet is required within 3 feet of each wet basin location. It may be on the wall, or an adjacent partition, or on the face or side of the cabinet not more than 12 inches below the top of the basin [CRC 210.52(D)].
- Receptacles cannot be face-up in a vanity surface; listed pop-up receptacles are allowed [CRC 405.51(E) & 210.52(D)].
- A minimum of one 120-volt, 20-amp circuit is required for the receptacle outlet(s) within 3 ft of the outside edge of the sink basin in the bathroom(s). This circuit can share multiple bathroom receptacles within 3 ft of edge of sink basin or countertops and similar work surfaces but can have no other outlets, including lights [CRC 210.11(C)(2), 210.52(D)]. However, if a 20-amp circuit serves only one:
- Bathroom lights and fans can be on the same circuit with the receptacles in that bathroom [CRC 210.11(C)(3) exception].
- Hydro-massage tubs require an individual (dedicated) branch circuit and readily accessible GFCI protection [CRC 680.7]. An access door is required and must be large enough to remove the motor and pump. Cord-connected equipment must have the receptacle facing the opening and be no more than one foot behind the access hatch [CRC 680.7].



- Recessed light fixtures in shower enclosures must be listed for a damp or wet location [CRC 410.10(A)].
- Pendant light fixtures, track lights, and paddle fans shall not be installed lower than 8 feet above the flood level rim of a tub, including the area 3 feet past the edge of the tub [CRC 410.10(B)].
- Electrical panels shall not be installed in bathrooms [CRC 240.24(E)].
- All 125-volt through 250-volt receptacles installed in bathrooms, within 6 ft of bathtub or shower enclosure, within 6 ft of any sink and floor-damp receptacles shall have ground-fault circuit-interrupter protection for personnel [CRC 210.8(A)].
- Switches and receptacles are not allowed in bathtub or shower spaces. Receptacles shall not be installed above the shower enclosure [CRC 410.10(C)].

Bathroom Plumbing, General:

- All hot water pipes require insulation thickness to be at least equal to the pipe diameter [CRC 609.12, 809.12(2)].
- Newly installed plumbing fixtures must be water-conserving in compliance with the California Plumbing Code and Green Building Standards.
- Water closets shall not exceed 1.28 gallons per flush [CRC 411.2, CGBSC 4.303.1.1].
- Showersheds shall not exceed 1.8 GPM at 80 PSI [CRC 402.1, CGBSC 4.303.1.3].
- Lavatory faucets shall not exceed 1.2 GPM at 80 PSI [CRC 402.2.2].
- All existing plumbing fixtures not included in the scope of new work shall be replaced if necessary to comply with SB407 Plumbing Fixtures Replacement requirements – See "Water Conservation/Certification Form".

Bathroom Plumbing, Shower:

- Showers shall require a minimum of 100 sq. inches and a 30" circle must fit from the back of the finished shower wall to middle of the drain. Shower doors must swing out and must be at least 27" wide. [CRC 409.6, 409.6(B).] The curb may encroach on these size requirements. All surfaces shall be waterproof up to 72 inches above the drain inlet [CRC R307.2].
- Safety glass (tempered or laminated) is required for all glass shower doors and partitions and for windows in walls facing the tub or shower and located less than 60 inches above the standing surface of the bathtub and within 60 inches horizontally [CRC R308.4, 118.5].
- Showers require a minimum 2-inch drain and trap [CRC Table 702.1].

Bathroom Plumbing, Toilets & Bidets:

- Toilets and bidets require a minimum 15 inches of clearance from the center line of the bowl to each side, and 24 inches of clearance from the front edge of the bowl [CRC 402.5].
- Lavatory sinks require a minimum of 24 inches front clearance [CRC 402.5].
- The maximum water temperature to a shower or tub/shower combination is 120°F. The water heater thermostat cannot be used as the control for this temperature. Valves shall provide scald and thermal shock protection, and be pressure-balanced, thermostatic, or combination pressure/balance/thermostatic mixing in accordance with ASSE, 1016 or ASME A112.18.5/CSA B125.1 [CRC 408.3.2].

Mechanical:

- Mechanical ventilation is required in all bathrooms with tubs or showers. Operable window is not an accepted way of providing bathroom exhaust for humidity control. [CMC 605.3, CGBSC 4.306.1, CRC 303.3.1] The fan must move minimum 50 CFM of air and be separately switched from the lighting. Fans that operate into the clothes washer and dryer receptacle [CRC 210.8(A)(3)].
- All non-locking type 125-volt, 15- and 20-ampere receptacle outlets shall be listed tamper-resistant, except those within dedicated space for an appliance not easily moved from one place to another (behind clothes washer) [CRC 405.12(A)].
- A separate 20-amp circuit is required for the laundry equipment. The lights and other receptacles in the room cannot be on that circuit [CRC 210(C)(2)].
- All circuits supplying outlets or devices in the laundry area (including laundry areas in garages) must be AFCI protected [CRC 210.12(A)].

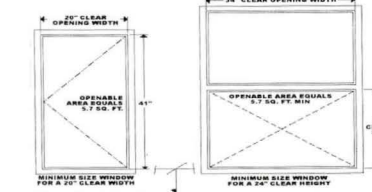
Tile & Backing:

- Water-resistant gypsum board (purple board) can be used as a backer board in areas that are not subject to direct exposure to water or high humidity [CRC R702.3.1.7]. Examples would be a wall behind a toilet or above a vanity countertop. Purple board cannot be used in a shower for direct exposure of tile. It can be used in showers behind a water-resistant membrane with mortar bed and lath. Other acceptable materials for application of tile in showers include cement board, fiber-cement or glass mat gypsum backer [CRC R702.4.2].
- Bathubs and shower floors and walls above bathtubs with installed shower heads and in shower compartments shall be finished with a nonabsorbent material. Such wall surfaces shall extend to a height of not less than 6 feet above the floor [CRC R307.2].
- See CRC 408.7 for information on tiling for shower and receptors.

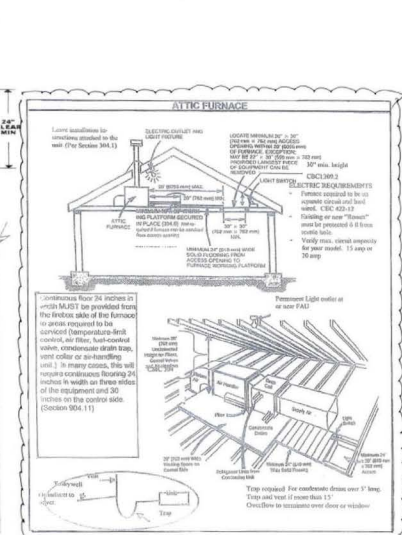
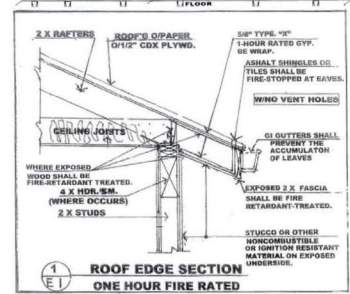
Laundry Rooms

Electrical:

- All new or altered lighting shall be high efficacy [CRC 150.00(A)].
- At least one light shall be controlled by a vacancy sensor (a manual-on, automatic-off occupancy sensor) [CRC 150.00(A)(2)].
- All 125-volt through 250-volt receptacles in laundry areas require GFCI protection, including but not limited to the clothes washer and dryer receptacle [CRC 210.8(A)(3)].
- All non-locking type 125-volt, 15- and 20-ampere receptacle outlets shall be listed tamper-resistant, except those within dedicated space for an appliance not easily moved from one place to another (behind clothes washer) [CRC 405.12(A)].
- A separate 20-amp circuit is required for the laundry equipment. The lights and other receptacles in the room cannot be on that circuit [CRC 210(C)(2)].
- All circuits supplying outlets or devices in the laundry area (including laundry areas in garages) must be AFCI protected [CRC 210.12(A)].



44" max. from bottom of clear opening to floor in egress windows in sleeping rooms

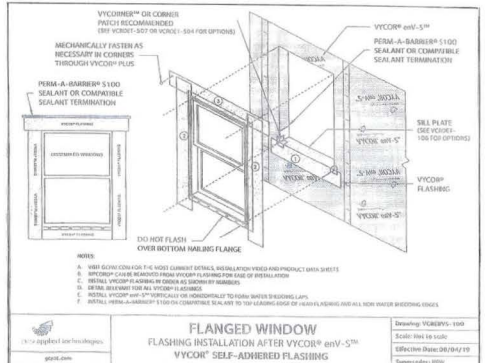


Plumbing:

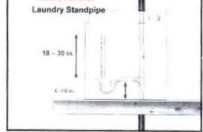
- Closets weather standards must be 2-inch diameter. The wear of the trap must be ground to ≈ 18 inches above the floor; the standpipes must be a minimum of 18 and a maximum of 20 inches above the trap [CRC 504.1].

Mechanical:

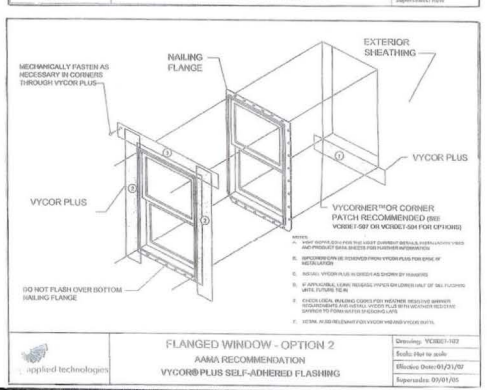
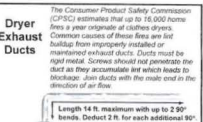
- Closets dryers in closets require a minimum of 100 sq. in. of opening for makeup air which can be supplied by louvers or undercutting the door [CRC 504.1].
- Dryer ducts must be smooth-walled rigid metal at least 4-inch diameter and not more than 14 feet in length. Two 90-degree bends are allowed within the 14 ft. and for 60" bend in excess of two ducts 2 ft from each additional bend [CMC 504.2.1].
- Ducts may not pass through plenums or be shared with other systems or vents. They cannot be connected with sleeves that penetrate duct interior [CMC 504.4].
- Dryer ducts must terminate on the building exterior in a backdraft damper. Screens or louvers cannot be installed [CMC 504.4].
- Flexible transition ducts (connectors) between the dryer and the metal duct are allowed in lengths up to 6 feet and cannot be concealed within construction [CMC 504.4.2 exception]. They must be UL listed and labeled (LL) as dryer transition ducts, and cannot be plastic.



Laundry Standpipe



Dryer Exhaust Ducts



REVISIONS	BY

ALL COMMENTS TO
 LOU COSTANZO
 684 MARSHALL CT.,
 SANTA CLARA CA, 95050
 PH: 408-264-0220
 FAX: 408-264-0220
 STRUCTURAL ENGINEER, TONY THONG, P.E. 408-999-0220

REMODEL FOR 1ST FLOOR & 2ND STORY ADDITION FOR:
THE SANTOSH SHAH RESIDENCE
 684 MARSHALL CT., SANTA CLARA CA, 95050
 PLANT: LOU COSTANZO 1501 SAN GABRIEL WAY, R.J., 95126, 408-264-0220
 STRUCTURAL ENGINEER, TONY THONG, P.E. 408-999-0220

NOTES

DRAWN BY
LOU COSTANZO
 CHECKED BY
S.C.
 DATE
7-18-23
 SCALE
NONE
 JOB NO.
S2023-B
 SHEET

E1



Building Division 408-615-2440
 Email: building@cityofsc.org
 Permit Center 408-615-2420
 Email: permits@cityofsc.org
 Automated Inspection Scheduling System 408-615-2400

NEW CONSTRUCTION DETERMINATION FOR ALL-ELECTRIC PROVISIONS OF THE 2023 REACH CODES

When an addition to and/or alteration of a project exceeds certain thresholds, the City identifies the project as "New Construction" for the purposes of All-Electric Building provisions as defined by the City's 2023 Reach Codes. This worksheet is designed to assist and clarify the term "New Construction" as it relates to the additions and/or alterations of existing buildings and structures.

NEW CONSTRUCTION: For the purposes of All-Electric Building requirements, "newly constructed buildings" shall include the buildings defined in Section 100.1 (2022 California Energy Code) as well as newly constructed additions and improvements to existing buildings where more than 50 percent of the exterior walls are removed or 50 percent of the wall plate height is raised. The Chief Building Official shall make the final determination regarding the application of this section.

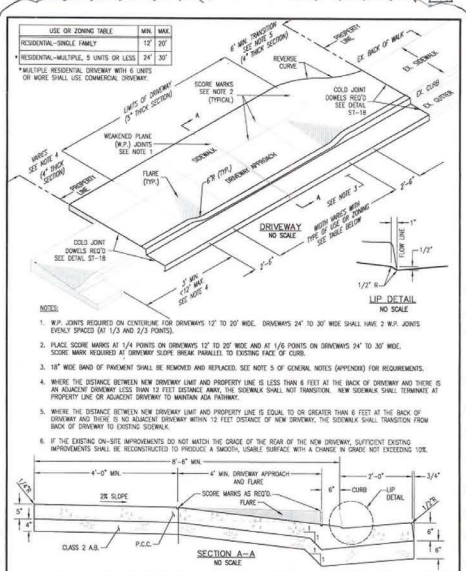
*As defined by City Ordinance 2016 - City of Santa Clara 2016 Research Codes.

- Notes:**
- Exterior walls are bearing or non-bearing walls that are used to enclose a building and have weather-exposed surfaces.
 - Removed walls are walls above the foundation that are permanently removed, torn out and rebuilt in the same location, or become interior walls as result of an addition or alteration.
 - Raising the plate height of the exterior walls:
 - A second story addition, including offset walls, is considered the raising of a plate height. The total linear feet of the second story addition exterior wall shall be used towards the calculations below.

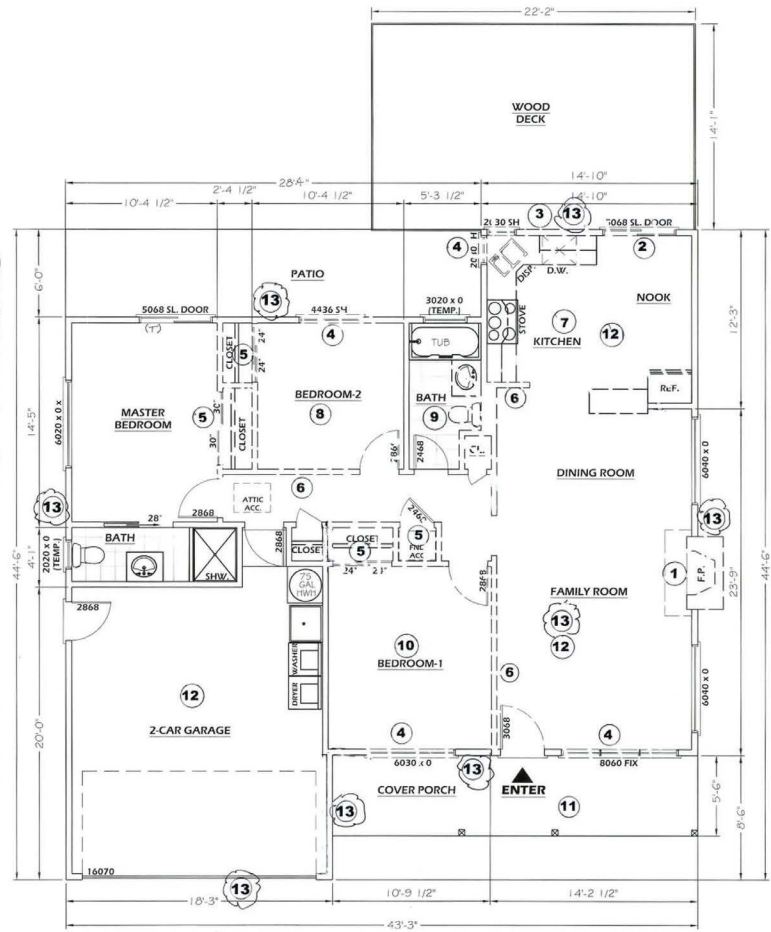
CALCULATIONS OF REMOVED EXTERIOR WALL AND RAISING THE PLATE HEIGHT OF THE EXTERIOR WALL

Total linear feet of existing exterior walls to be removed above the foundation:	175.00 LF. (A)
Total linear feet of new exterior walls of the second story addition:	134.00 LF. (B)
(C) = The greater of (A) or (B)	175.00 LF. (C)
Total linear feet of the existing exterior walls above the foundation:	175.00 LF. (D)
Determine if your project is a Newly Constructed Addition and/or Alteration:	
Calculate (E)% = (C) / (D)	175.00 LF. ÷ 175.00 LF. = 100% (E)

Note: The project is a "Newly Constructed Building" if ratio (E) is greater than 50% **100%** %



DRAWN BY: K. TRAN
 CHECKED BY: V. LUCHESSI
 APPROVED BY: F. AMIN
 DATE: SEPTEMBER 2020
 RESIDENTIAL DRIVEWAY WITH ATTACHED SIDEWALK
 CITY OF SANTA CLARA
 ST-4
 PAGE: 4



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

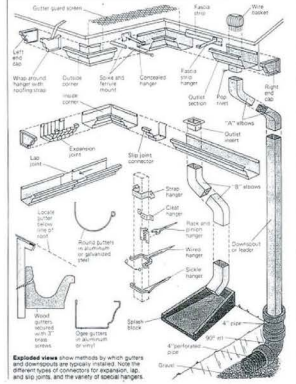
Gutters and downspouts

Gutters collect the water runoff from a roof and direct it into downspouts or leaders, which bring it to the ground. Most gutters and downspouts are made of aluminum or vinyl.

The pieces of the gutter system, shown below, are purchased and laid out on the ground beneath the wall where they will be installed. They are assembled by sliding together, creating a 1/4 to 2 inch overlap, which should always step down toward the downspouts. Gutter-sealant mastic and pop rivets, and sometimes slip joint connectors, are used to connect the sections. A chalk line is snapped on the wall to guide installation. Though many gutters are installed level, it is best to shape them 1/8 inch per foot to aid drainage.

The gutter is held in place by brackets or hangers. They are attached with aluminum nails or screws to the fascia or to the rafter ends every 24 inches (the spacing of the rafters). New free-floating systems allow gutters held by brackets to slide as they expand and contract with changes in temperature. The gutter should be attached beneath the face of the roof so that no sliding off can clear the gutter. Bracket strainers are placed over the outlets to prevent leaves and debris from clogging the downspout, or the entire length of the gutter can be covered with a screen.

Downspouts are assembled and then attached to the gutter. They should be flush against the wall, to which they are strapped. The downspouts must be large enough to accommodate the runoff of the roof. In general, 1 square inch of downspout suffices for each 100 square feet of roof area.



- DEMO CONSTRUCTION NOTES:**
- THE SANTOSH SHAH RESIDENCE**
- DEMO (E) MASONRY FIREPLACE W/STACK
 - REMOVE PATIO SL. DOOR.
 - REMOVE 2030 DH WIN. & OPEN WALL FOR (N) WIN.
 - REMOVE WINDOW
 - DEMO (E) CLOSET/WALLS
 - REMOVE WALL
 - REMOVE (E) KITCHEN
 - REMOVE BEDROOM 2
 - REMOVE BATHROOM WITH TUB/SH.W.C. & SINK.
 - REMOVE BEDROOM 1
 - DEMO PORCH STRUCTURE.
 - DEMO ROOF/CEILING STRUCTURE
 - REMOVE INT. GYP. BD., ELECTRICAL & EXT. STUCCO FOR ENTIRE HOUSE.

Revision	By
REV. 2	2-8-24 LC

PLAN COMMENTS TO: LOUCHESSI@CITYOFSC.ORG
 408-615-2420 PERMIT CALL
 7-16-23
 2-8-24
 Lou Costanzo
 A REMODEL FOR 1ST. FLOOR & 2ND. STORY ADDITION FOR:
THE SANTOSH SHAH RESIDENCE
 684 MARSHALL CT., SANTA CLARA CA. 95050
 PLANK LOU COSTANZO 1501 SAN GABRIEL WAY, S.J. 95128 408-264-0220
 STRUCTURAL ENGINEER: TONY TRUONG PE. 408-899-0220

DEMOLITION PLAN

DRAWN
 LOU COSTANZO
 CHECKED
 S.C.
 DATE
 7-18-23
 SCALE
 1/4" = 1'-0"
 JOB NO.
 S2023-B
 SHEET

A2.1

PLAN COMMENTS TO:
 LONGCOSTANZO ARCHITECTS
 408-272-8800
 7-18-23
 7-18-23
 LOU COSTANZO

A REMODEL FOR 1ST, FLOOR & 2ND STORY ADDITION FOR
THE SANTOSH SHAH RESIDENCE
 654 MARSHALL CT., SANTA CLARA, CA. 95050
 PLAN LOU COSTANZO / 101 SAN GABRIEL WAY, S.J. 95128 408-264-0220
 STRUCTURAL ENGINEER: TONY TRUONG PE. 408-899-0220

**PROPOSED FIRST
 AND SECOND
 FLOOR PLANS**

DRAWN BY
LOU COSTANZO
 CHECKED BY
S.C.
 DATE
7-18-23
 SCALE
1/4" = 1'-0"
 JOB NO.
82022-8
 SHEET

A3

- SMOKE ALARMS: CRC 314; INSTALL IN EACH SLEEPING ROOM, OUTSIDE EACH SEPARATE BEDROOM IN THE IMMEDIATE VICINITY OF THE BEDROOMS, ON EACH ADDITIONAL STORY OF THE DWELLING INCLUDING BASEMENTS AND HALLWAYS.
- CARBON MONOXIDE ALARMS: CRC 318; INSTALL CO ALARMS OUTSIDE OF EACH SEPARATE DWELLING UNIT SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, AND ON EVERY LEVEL OF THE DWELLING UNIT, INCLUDING BASEMENTS, UP AND BOTTOM OF STAIRCASE LANDINGS.
- ALL ROOMS ARE TO HAVE PRIMARY POWER SOURCE FROM BUILDING, HAVE BATTERY BACKUP AND ARE TO BE INTERCONNECTED TO THE OTHER CO ALARMS.
- LIGHT PANELS: IN FRONT ENTRY DOOR WINDOWS WITHIN 36" OF THE INSIDE ACTIVATING DEVICES SHALL BE OF LAMINATED SECURITY GLASS (NOT TEMPS. GLASS WHICH IS A MIN. 1/4" THICK W/UV VINYL INTERLAYER OR 1/4" POLY-CARBONATE SECURITY SHEETS OR EQUIVALENT).
- 4.5" EBF #1 HEADERS, OPENINGS, WINDOW DOOR LANS.
- ALL CABINETS, BENCHES, ETC. BY OTHERS.
- ALL FINISH REQUIREMENTS BY OTHERS.
- HEIGHT OF COMBUSTIBLE MATERIAL ABOVE KITCHEN RANGE TO BE 36 IN. UNPROTECTED OR 24 IN. PROTECTED, RANG. FLOOR HT. CHAMBER @ DOOR IS 36 IN. @ UNDER FLOOR ACCESS: 18 INCHES, 24 INCHES CLEAR WITHOUT PIPE OR INTERFERENCE. 2021 CBC SEC. 809.1
- ATYIC ACCESS TO UNOCCUPIED AREA: OPENING NOT LESS THAN 22 IN. X 30 IN. WIDTH NOT LESS THAN 30 INCHES HEADROOM. 2021 CBC SEC. 807.
- EMERGENCY ESCAPE WINDOWS (SLEEPING ROOMS): A. EGRESS OPENING TO BE MEASURED NOT MORE THAN BOTTOM OF SILL 46" ABOVE FINISHED FLOOR HEAD. B. MIN. NET CLEAR OPERABLE AREA: 5.7 S.F., R312.1 C. MIN. NET CLEAR OPERABLE WIDTH: 20 IN. R312.1 D. MIN. NET CLEAR OPERABLE HEIGHT: 24 IN. R312.1
- ALL WINDOWS, FRENCH AND SLIDING PATIO DOORS SHALL HAVE DOUBLE GLAZING, WEATHERSTRIPPED, AND GLAZED, TEMPERED GLASS SHALL BE AFFIXED WITH A PERMANENT LABEL.
- MECHANICAL VENTILATION SYSTEMS WITH HUMIDITY SENSORS, MUST SUPPLY 5 CHANGES PER HOUR IN BATHING, LAUNDRY ROOM, BUT IN OTHER HABITABLE AREAS, 3 CHANGES PER HOUR ARE OK.
- BATHROOMS:
 - BATHROOM EXHAUST FANS: R303.1: EACH BATHROOM CONTAINING A BATHTUB, SHOWER OR TUB/SHOWER COMBINATION SHALL BE MECHANICALLY VENTILATED FOR THE PURPOSES OF HUMIDITY CONTROL, WITH CAPTOR A MINIMUM 50 CFM AND HUMIDITY CONTROLLED.
 - SETTING WATER CLOSETS: CPC 409.2: WATER CLOSET AND REINETS SHALL HAVE 17" FROM CENTER OF SINK WALLS AND THE CLEAR SPACE IN FRONT OF 24 INCHES.
 - SHOWERS: CPC 408.8: SHOWER DOORS SHALL OPEN 90 AS TO MAINTAIN NOT LESS THAN 21 INCHES OF UNOBSTRUCTED OPENING OF EGRESS.
 - SHOWER COMPARTMENT: CPC 408.4: SHOWER PAN DIMENSIONS SHALL HAVE A MINIMUM OF 85.4 X 60" AND ALSO CAPABLE OF ENCOMPASSING A 30 INCH CIRCLE.
 - TUB/SHOWER VALVES SHALL BE PRESSURE BALANCED WITH TEMP. RATING SET AT 120 DEGREE F. (CPC) OR LESS. LOCATION OF SHOWER VALVES & HEADS: CPC 408.9: CONTROL VALVES & SHOWER HEADS SHALL BE LOCATED WHERE THE SHOWER HEAD DOES NOT DISCHARGE DIRECTLY INTO THE ENTRANCE TO THE BATHROOM. SHOWER STALLS/COMPARTMENT & TUB ENCLOSURES MUST CONFORM WITH THE REQUIREMENTS OF 411.5 FOR DRAINAGE, 411.5, SH. RECEPTORS 411.5 THRESHOLD 2" DEEP, 184 SQ. IN. MIN. DOORS AND PANELS OF SHOWERS AND BATHS SHALL BE FULLY TEMPERED, LAMINATED SAFETY GLASS OR APPROVED PLASTIC PROTECTIVE SAFETY GLASS AT WINDOWS IN TUB/SHOWER AREA WITHIN 60" ABOVE BATH/SHOWER AREA.
 - TILE WALLS 0.1" CEMENTIOUS OR GYPSUM BOARD APPROVED, SUCH AS WONDERBOARD OR DUCK BOARD FROM FLOOR TO CEILING, ABOVE TUB/SHOWER AREA, WATER BARRIER/TILE TO BE 2" ABOVE FINISHED FLOOR OF SHOWERTUB SURFACE. SECTION 806.2 OF CBC USE 1/2 IN. PURPLE BD. FOR LAUNDRY/SHOWER AREA.
 - KITCHEN FAUCETS ARE NOT TO EXCEED 1.8 GAL. PER MIN. AT 60 PSI. SEC. 801.1.2021 CBC & TABLE 4.302.1.3
 - WATER CLOSETS (TOILETS): 1.28 GAL. / FLUSH 16. LAK. FAUCETS: SEC. 801.1.5 GPM AT 60 PSI. MIN. 6.5 GPM @ 90 PSI. SEC. 801.1.3.2021 TABLE 4.302.1.3
 - SHOWERS: 2021 CBC SEC. 408.1.1.1. SINGLE SHOWER HEAD: 1.8 GPM AT 80 PSI. MULTIPLE SHOWER HEADS: COMBINED FLOW RATE AT ALL SHOWER HEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE 1.8 GPM AT 80 PSI. 2021 CBC SEC. 408.1.1.2
 - RECEIVER TUBS: PROVIDE AGRIC OUTLET ON SEP. CIRCUIT AND A READILY ACCESSIBLE HATCH PROVIDED TO ACCESS OUTLET. 2021 CBC SEC. 809.0.8
 - WATER HEATER SHALL BE SEISMICALLY ANCHORED. THE UPPER TO CLARE ANCHORS OR STRAPS AT POINTS WITHIN THE UPPER AND LOWER ONE THIRD OF ITS VERTICAL DIMENSION. THE LOWER STRAP ANCHORS LOCATED TO MAINTAIN A MINIMUM DISTANCE OF 4 INCHES ABOVE THE CONTROLS. 2021 CBC SEC. 809.0.8
 - TANKLESS WATER HEATER: (SEE TRIM PAGE).
 - CLOTHES DRYER: EXHAUST VENT 2021 CBC 804.4. 804.12.3 IN LAUNDRY SHALL BE EQUIPPED WITH EXIST DUCT TO OUTSIDE, CONSTRUCTED OF SMOOTH RIGID METALIC MATERIAL WITH A BACKUP DAMPER WITH NO SCREEN, (ANY DEVICE ADDED TO VENT DUCT MUST HAVE ITS APPROVAL, LISTING INFORMATION DOTTED OR DRAWING). DUCT LENGTH SHALL BE LIMITED TO 14 FT. LONG WITH TWO 90 DEGREE ELBOWS, FROM DRYER TO POINT OF TERMINATION. REDUCE THE LENGTH BY TWO FT. FOR EVERY ELBOW IN EXCESS OF 2.
 - GLASS DOORS & WINDOWS SUBJECT TO HUMAN CONTACT MUST HAVE SAFETY GLASS OR PROTECTIVE GRILL OR PUSH BUTTETS.
 - PROVIDE HEATING EQUIPMENT SUFFICIENT TO MEET 2022 CRC, CEC, CBC REQUIREMENTS FORCED AIR FURNACE LOCATED IN ATTIC: PROVIDE A MIN. CEILING ACCESS OF 30" X 30" CONSTRUCT A 36" WIDE ACCESS PLATFORM PATH FROM ACCESS TO F.A.U. AND KEEPS AN ELECTRICAL RECEPTICAL AT THE F.A.U. AND A LIGHT FIXTURE THAT IS SWITCHED AT THE ACCESS OPENING.
 - WALL SURFACE BEHIND CERAMIC TILE OR OTHER FINISHED WALL SURFACES SHALL BE MATERIALS NOT ADVERSELY AFFECTED BY WATER OR DAMP CONDENS. IF GYPSUM BOARD IS USED IT MUST BE APPROVED W.B.
 - NOTE: FINISHING, MECHANICAL, REQUIREMENTS: PLUMBING FIXTURES AND MECHANICAL EQUIPMENT ARE TO BE SCREENED FROM VIEW. INSTALLATION SHALL BE THE CONTRACTOR / OWNER RESPONSIBILITY.
 - OPN'G DOOR BETWEEN LIVNGHNGHARE SHALL BE 1-5/8" SOLID WOOD, SELF-CLOSING, TIGHT FITTING.
 - FLOORING AND LANDINGS AT EXT. DOORS R 311.3. 1.5-1.6" BELOW TOP OF THRESHOLD. 2. NOT MORE THAN 1/4" LOWER THAN TOP OF general THRESHOLD 36" IN DIRECTION OF TRAVEL. WIDTH NOT LESS THAN WIDTH OF DOOR.

CONSTRUCTION NOTES:

- THE SELECTED CONTRACTOR SHALL:**
- REMOVE ALL ROOFING STRUCTURES
 - REMOVE EXTERIOR STUCCO FOR NEW
 - REMOVE ALL EXISTING INSULATION FOR NEW.
 - RIM EXISTING WALLS WITH 4X12 BM. S.S.D. TO RAISE 1ST FLOOR PLATE HEIGHT/CEILING TO 9'-0".
 - CONSTRUCT NEW COVERED PORCH/ROOF.
 - BUILD SWITCHBAIR STAIRS; OPEN TO ABOVE.
 - BUILD 2ND FLOOR ADDITION W/8'-0" PLATE HT. WITH 14" OPEN WEB. FLOOR JOISTS AND MFG. ROOF TRUSS/CELLING STRUCTURE.
 - REPLACE WINDOWS, ETC. & DOORS.
 - FOLLOW TITLE 24/ENERGY REPORT FOR FURNIAC, INSULATION, ENERGY CODE RECOMMENDATIONS, AND LOCATE AC FAN AT REAR OF HOUSE.
 - ELECTRICAL, 200 AMP. E.P., 100 AMP. S.P., 60 AMP. OUTLET INSTALLED FOR ROOF SOLAR SYSTEM (AS A DEFERRER ITEM), MECHANICAL, PLUMBING AS NEEDED.

R303.1 BATHROOM EXHAUST FANS

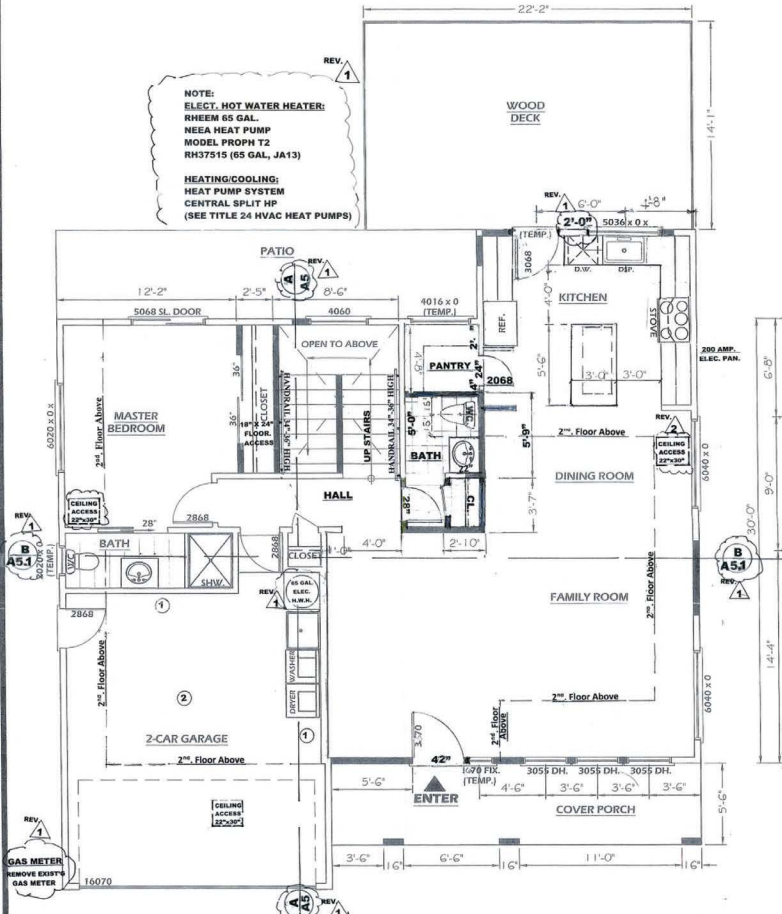
EACH BATHROOM CONTAINING A BATHTUB, SHOWER OR TUB/SHOWER COMBINATION SHALL BE MECHANICALLY VENTILATED FOR PURPOSES OF HUMIDITY CONTROL IN ACCORDANCE WITH THE CMC CHAPTER 4. MINIMUM 50 CFM AND HUMIDITY CONTROLLED. CPC 409.2 SETTING WATER CLOSET WATER CLOSET AND BIDETS. SHALL HAVE 15" FROM CENTER TO SIDE WALLS AND THE CLEAR SPACE IN FRONT NOT LESS THAN 24 INCHES. CPC 408.5 SHOWER DOORS SHOWER DOORS SHALL OPEN 90 AS TO MAINTAIN NOT LESS THAN 22 INCHES UNOBSTRUCTED OPENING OF EGRESS. CPC 408.6 SHOWER COMPARTMENT SHOWER PAN DIMENSIONS SHALL HAVE A MINIMUM 102.4 X 5.1 AND ALSO CAPABLE OF ENCOMPASSING A 30 INCH CIRCLE. CPC 408.9 LOCATION OF VALVES AND HEADS CONTROL VALVES AND SHOWER HEADS SHALL BE LOCATED SO THAT THE HEAD DOES NOT DISCHARGE DIRECTLY AT THE ENTRANCE TO THE COMPARTMENT. KITCHEN EXHAUST: 100 CFM

NOTES: FOR EGRESS WINDOWS AT BEDROOMS:

- WINDOW MUST HAVE:
- A MINIMUM NET CLEAR OPENING OF 5.7 SQ. FT. (GRADE-FLOOR OPENINGS SHALL BE MIN. 5 SQ. FT.)
 - MINIMUM NET CLEAR OPENING HEIGHT OF 24 INCHES.
 - MINIMUM NET CLEAR OPENING WIDTH OF 20 INCHES.
 - BOTTOM CLEAR OPENING: NOT MORE THAN 44 INCHES ABOVE THE FLOOR AND OPENS DIRECTLY TO STREET, PUBLIC ALLEY, YARD OR COURT THAT OPENS TO A PUBLIC WAY.

FOR GAS PIPE SIZING AND ELECTRICAL LOAD CALCULATIONS DESIGN BUILT APPROACH THE GENERAL CONTRACTOR AND LICENSED PLUMBING, ELECTRICAL, & MECHANICAL SUBCONTRACTORS SHALL SUBMIT THEIR OWN CALCULATIONS LINE DIAGRAMS WHEN PULLING PERMITS.

GUARDRAIL AT HALL STAIRS MIN. GUARDRAIL HEIGHT MUST BE 42" ABOVE FINISHED FLOOR (R312.1.2). GUARDS' OPENING SPACING MUST BE INDICATED NOT TO ALLOW PASSAGE OF A 4" SPAR (R312.1.3). REFERENCE NOTE "4" ON SHEET A5.



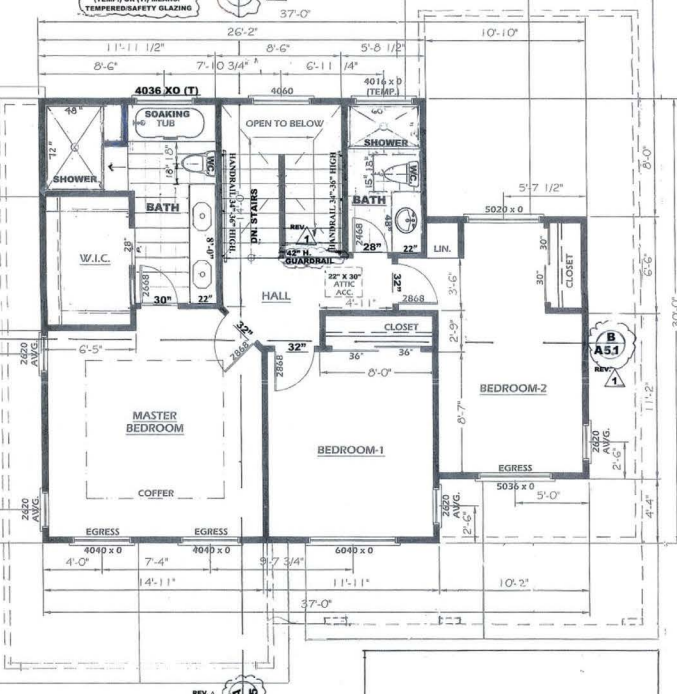
WALL LEGEND

- NEW 2x4 @ 16" O.C.
- EXISTING 2x STUD WALL

1. OPENINGS BETWEEN GARAGE AND RESIDENCE LIVING SHALL BE EQUIPPED WITH SOLID DOOR NOT LESS THAN 1-3/8" THICKNESS, SOLID OR HONEYCOMB STEEL DOORS NOT LESS THAN 1-3/8" OR 20 MIN. FIRE-RATED DOORS SHALL BE SELF-CLOSING AND SELF-LATCHING. CRC SEC. 302.5.1

2. PROVIDE 5/8" TYPE (X) GYPSUM BOARD ON GARAGE WALLS COMMON WITH LIVING FROM MUSEL THROUGH TO ROOF TYWOOD, OR CEILING AND 2-LAYERS OF 3/4" TYPE (X) GYP.BD. WHERE CEILING IS COVERED BY 2ND FLOOR LIVING.

EXISTING / PROPOSED FIRST FLOOR PLAN
 SCALE: 1/4" = 1'-0"



PROPOSED SECOND FLOOR PLAN
 SCALE: 1/4" = 1'-0"

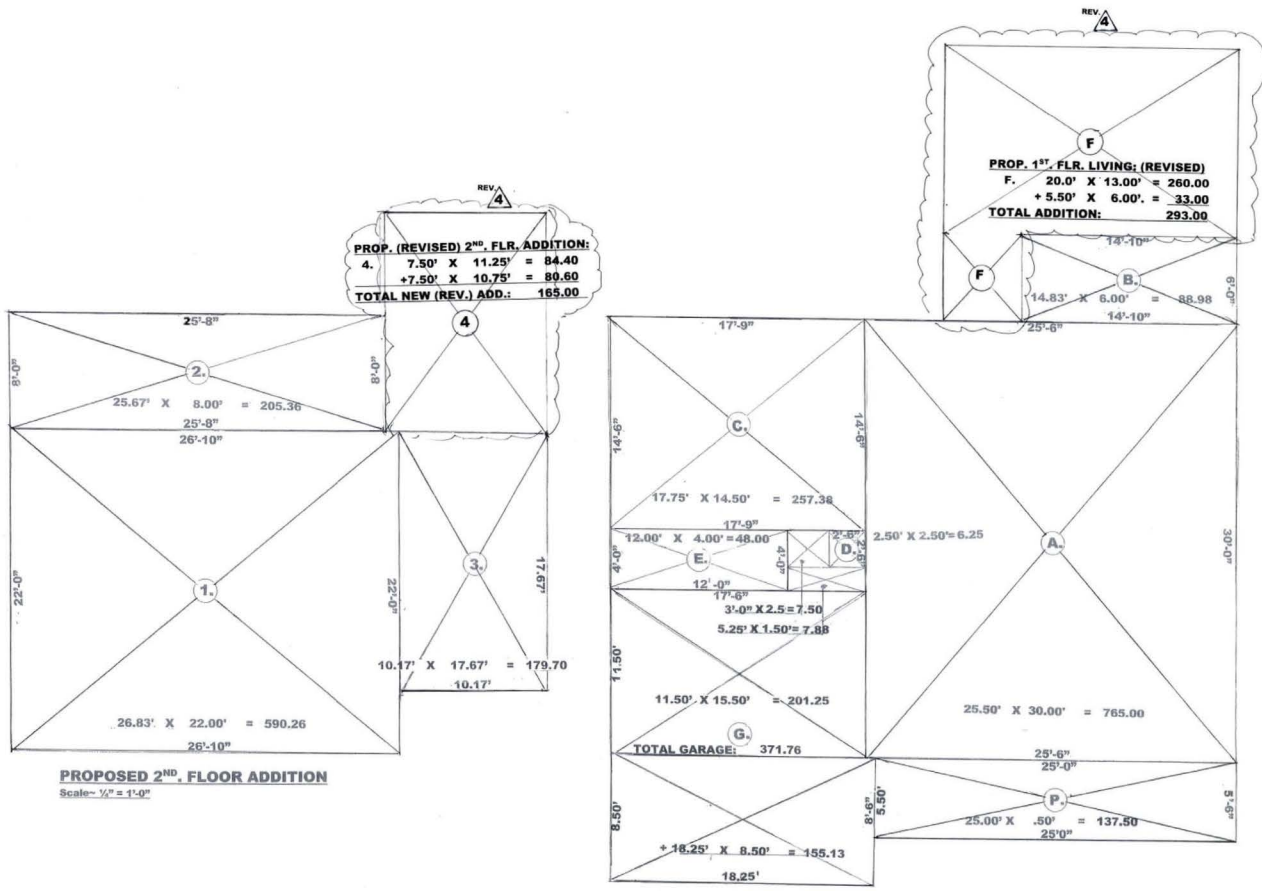
FOR GAS PIPE SIZING AND ELECTRICAL LOAD CALCULATIONS DESIGN BUILT APPROACH THE GENERAL CONTRACTOR AND LICENSED PLUMBING, ELECTRICAL, & MECHANICAL SUBCONTRACTORS SHALL SUBMIT THEIR OWN CALCULATIONS LINE DIAGRAMS WHEN PULLING PERMITS.

- FOOTING HEIGHT: 12 INCHES X 12 INCH PER FT. TO STREET CURB MIN. FOOTING HT. 5% DRAINAGE - 88813.
- FIRE DEPARTMENT ACCESS PROVIDED & MAINTAINED SERVICEABLE PRIOR & DURING CONSTRUCTION.

REVISIONS	BY
8-12-24	L.C.

A REMODEL FOR 1ST. FLOOR & 2ND. STORY ADDITION FOR:
THE SANTOSH SHAH RESIDENCE
 684 MARSHALL CT., SANTA CLARA CA. 95050
 PLAN: LOU COSTANZO 1501 SAN GABRIEL WAY, S.J. 95128 408-264-0220
 STRUCTURAL ENGINEER: TONY TRUONG PE. 408 898-0220

FLOOR PLAN CALCULATIONS
 DRAWN BY
LOU COSTANZO
 CHECKED BY
S.C.
 DATE
8-12-24
 SCALE
1/4" = 1' - 0"
 SHEET NO.
S2023-8
 SHEET
A3.1R
 REVISION
 OF 4 SHEETS



REV 4
PROP. 1ST. FLR. LIVING: (REVISED)
 F. 20.0' X 13.00' = 260.00
 + 5.50' X 6.00' = 33.00
TOTAL ADDITION: 293.00

REV 4
PROP. (REVISED) 2ND. FLR. ADDITION:
 4. 7.50' X 11.25' = 84.40
 + 7.50' X 10.75' = 80.60
TOTAL NEW (REV.) ADD.: 165.00

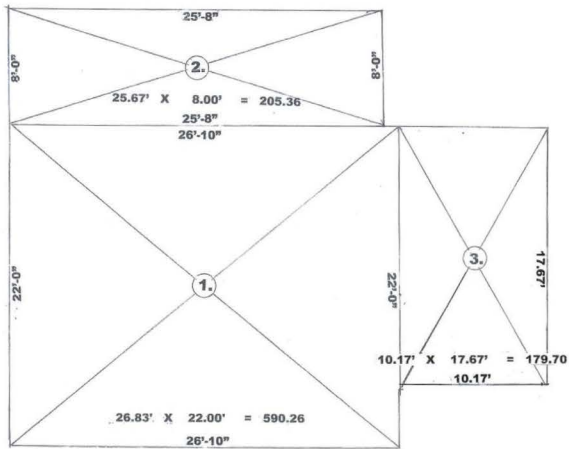
REV 4
PLAN CALCULATIONS: (REVISED) 8-12-24
THE SANTOSH SHAH RESIDENCE

SYM.	SIZE	SF.	TOTAL SF.
EXISTING FIRST FLOOR LIVING:			
A.	25.50' X 30.00'	= 765.00	
B.	14.83' X 6.00'	= 88.98	
C.	17.75' X 14.50'	= 257.38	
D.	2.50' X 2.50'	= 6.25	
E.	12.00' X 4.00'	= 48.00	
TOTAL (E) 1ST. FLR. LIVING:		1165.61	1165.61
PROP. 1ST. FLR. LIVING: (REVISED)			
F.	20.0' X 13.00'	= 260.00	
	+ 5.50' X 6.00'	= 33.00	
TOTAL ADDITION:		293.00	293.00
TOTAL (REV.) FIRST FLOOR LIVING:			
(E) PROPOSED 2ND. FLOOR ADDITION:			
1.	26.83' X 22.00'	= 590.26	
2.	25.67' X 8.00'	= 205.36	
3.	10.17' X 17.67'	= 179.70	
TOTAL (E) ADDITION:		975.32	975.32
PROP. (REVISED) 2ND. FLR. ADDITION:			
4.	7.50' X 11.25'	= 84.40	
	+ 7.50' X 10.75'	= 80.60	
TOTAL NEW (REV.) ADD.:		165.00	165.00
TOTAL 2ND. FLR. ADDITIONS:			
		1140.32	1140.32
TOTAL 1ST. & 2ND. FLOOR LIVING:			
		2598.23	2598.23
TOTAL (E) GARAGE SF.			
		371.76	
TOTAL PORCH:			
		137.50	
TOTAL NON-LIVING:			
		509.26	
RESULT: TOT. 1ST. & 2ND. FLR. LIVING ADDIT'S:			
		293.00 + 1140.32 = 1433.32 SF.	
1ST. FLR. LIV. GAR. + POR.			
		1674.87SF. +/- 5301 SF. (LOT) = 0.3159 OR 32%	
1ST. FLR. LIV. + ADD. + GAR. + POR.			
		1967.87SF. +/- 5301 SF. (LOT) = 0.3712 OR 37% OK	
1967.87SF. X .66% = 1298.79 SF. ALLOWED 2ND. FLOOR.			

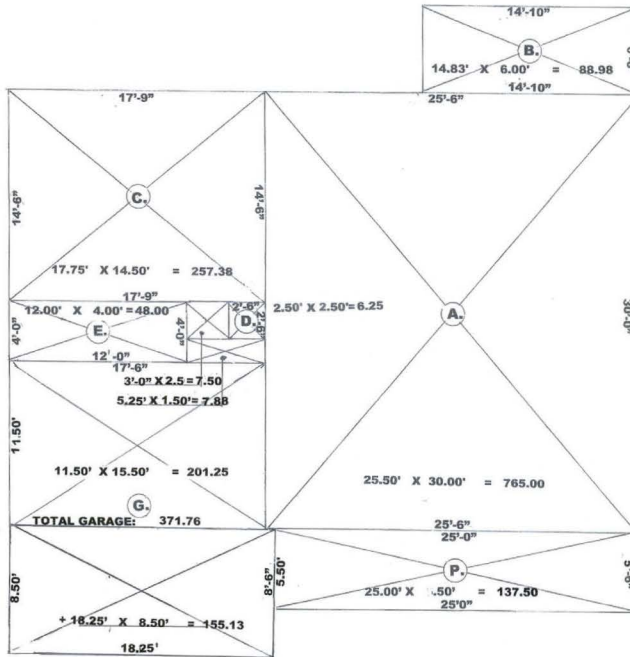
FIRST FLOOR PLAN
 SCALE - 1/4" = 1'-0"

(NOTE: SEE A3.1 FOR (E) PLAN CALCULATIONS)

FLOOR PLAN CALCULATIONS
 SCALE 1/4" = 1'-0"



PROPOSED 2ND FLOOR ADDITION
 Scale - $\frac{1}{4}'' = 1'-0''$



FIRST FLOOR PLAN
 SCALE - $\frac{1}{4}'' = 1'-0''$

FLOOR PLAN CALCULATIONS
 SCALE $1/4'' = 1'-0''$

PLAN CALCULATIONS: THE SANTOSH SHAM RESIDENCE

SYM.	SIZE	S.F.	TOTAL S.F.
EXISTING 1ST FLOOR LIVING:			
A.	25.50' X 30.00'	= 765.00	
B.	14.83' X 6.00'	= 88.98	
C.	17.75' X 14.50'	= 257.38	
D.	2.50' X 2.50'	= 6.25	
E.	12.00' X 4.00'	= 48.00	
TOTAL 1ST FLOOR LIVING:		1165.61	1165.61
G. GARAGE:			
	+ 18.25' X 8.50'	= 155.13	
	+ 11.50' X 15.50'	= 201.25	
	+ 3.00' X 2.50'	= 7.50	
	+ 5.25' X 1.50'	= 7.88	
TOTAL GARAGE:		371.76	371.76
P. PORCH:			
	25.00' X 5.50'	= 137.50	137.50
TOTAL LIVING + GARAGE + PORCH:			1674.87
1744.87 SF. X .66(%) = 1151.61 S.F. (ALLOWED)			
PROPOSED 2ND FLOOR ADDITION:			
1.	26.83' X 22.00'	= 590.26	
2.	25.67' X 8.00'	= 205.36	
3.	10.17' X 17.67'	= 179.70	
TOTAL PROP. 2ND FLOOR:		975.32	975.32
TOTAL (E) 1ST FLOOR LIVING:		1165.61	1165.61
TOTAL PROPOSED LIVING:		2140.93	2140.93
<small>(2-nd flr.) (66% 1st flr.)</small>			
975.32 SF. -/ 1105.41 SF. = 0.8823 OR 89%			
5301 SF.(LOT) X .40 = 2120.40 SF. ALLOWED 1ST FLOOR			
<small>(1st flr. Lv. + gar. + porch)</small>			
1674.87 SF. -/ 5301.00 SF. (LOT) = 0.3159 OR 32%			

REVISIONS	BY

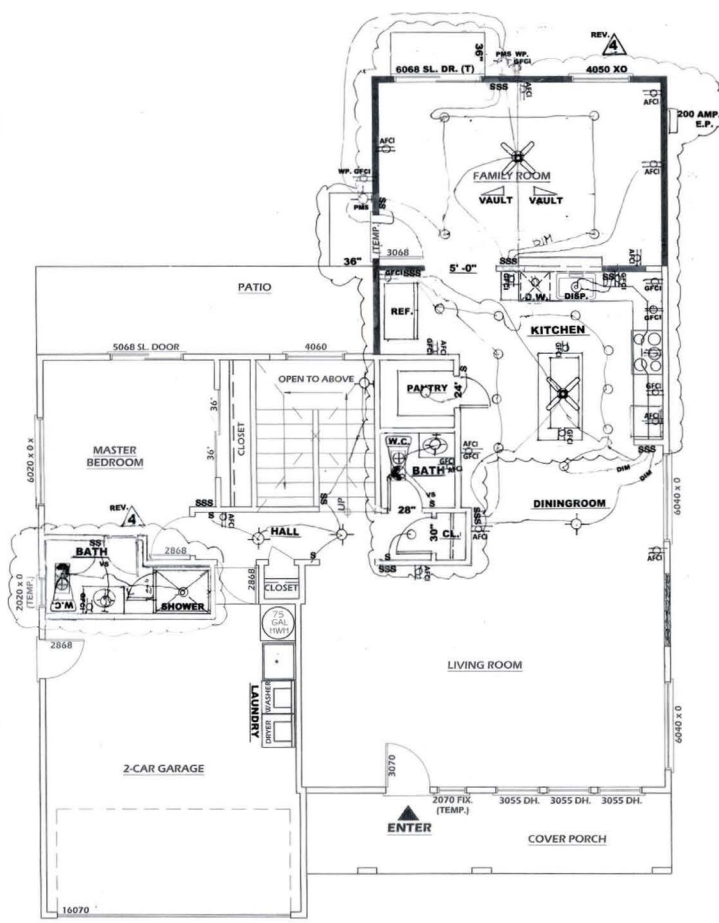
PLAN COMMENTS TO:
 LOU@COSTANZO.COM
 684 MARSHALL CT. SANTA CLARA CA 95050
 PH: 408-264-0220 FAX: 408-264-0220
 7-18-23
 Lou Costanzo

**A REMODEL FOR 1ST FLOOR & 2ND STORY ADDITION FOR:
 THE SANTOSH SHAM RESIDENCE
 684 MARSHALL CT. SANTA CLARA CA 95050
 PH: 408-264-0220 FAX: 408-264-0220
 STRUCTURAL ENGINEER: TONY TRUONG PE. 408 899-0220**

**FLOOR PLAN
 CALCULATIONS**

DRAWN
 LOU COSTANZO
 CHECKED
 S.C.
 DATE
 7-18-23
 SCALE
 1/4" = 1'-0"
 JOB NO.
 S2023-8
 SHEET

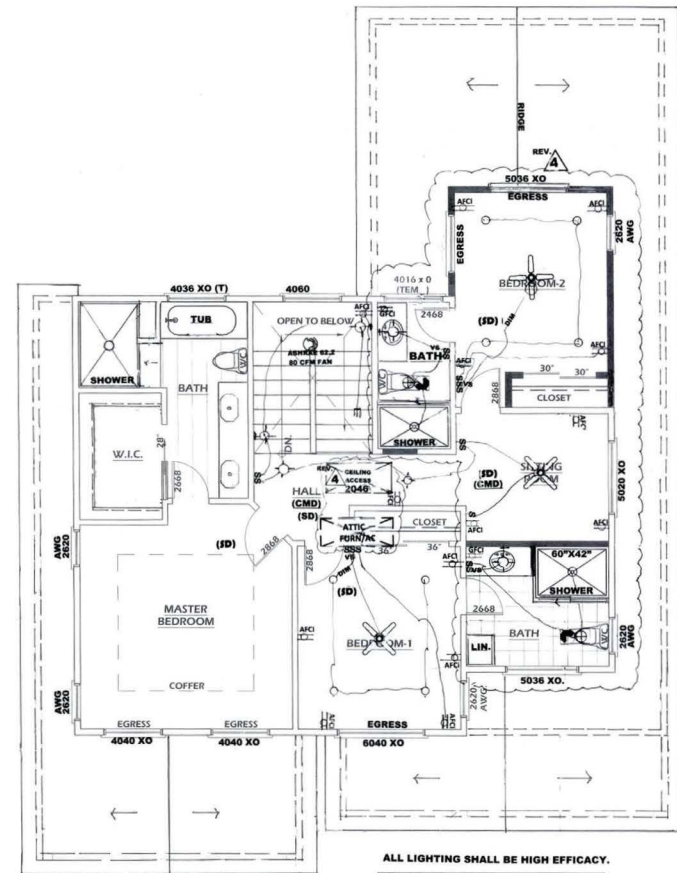
A3.1



WALL LEGEND

- NEW 2x4 OF STUD WALL @ 16" O.C.
- EXISTING 2x STUD WALL

PROPOSED FIRST FLOOR ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



ALL LIGHTING SHALL BE HIGH EFFICACY.

(NOTE: SEE A4 AS EXIST'G 1ST. & 2ND FLR. ELECTRICAL PLAN)

- NOTES:**
- A CARBON MONOXIDE ALARM IS TO BE INSTALLED IN THE HALLWAY SERVING THE SLEEPING AREA. (R315, 2 2013 CBC) THE SYMBOL WILL LOOK LIKE THIS: CMA
 - AN ARC FAULT PROTECTION IS REQUIRED FOR ALL ROOMS (BEDROOM, LIVINGROOMS, HALLS, DININGROOMS, CLOSETS ETC.) (210.12 (B) C.E.C. 2013)
 - ALL RECEPTILES SHALL BE "TAMPER RESISTANT" PER ARTICLE 406.11 C.E.C. 2013

PROPOSED SECOND FLOOR ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

ELECTRICAL SYMBOLS	
[Symbol]	DUPLX WALL OUTLET
[Symbol]	ARC-FAULT-CIRCUIT INTERRUPTER OUTLET (EXCEPTION: LAUNDRY CLOTHES DRYER)
[Symbol]	GROUND-FAULT CIRCUIT OUTLET
[Symbol]	DUPLX WALL SWITCHED OUTLET
[Symbol]	CEILING DUPLX OUTLET
[Symbol]	SINGLE PLUG RECESSED FLOOR OUTLET
[Symbol]	220V. S.C. 220 V. CLOTHES DRYER/OVEN/PLUG-IN
[Symbol]	EXT. WEATHERPROOF DUPLX OUTLET
ALL LIGHTING SHALL BE HIGH EFFICACY	
[Symbol]	LIGHT SWITCH
[Symbol]	3-WAY LIGHT SWITCH
[Symbol]	VACANCY SENSOR
[Symbol]	OCCUPANCY SENSOR LIGHT SWITCH
[Symbol]	DIMMER LIGHT SWITCH W/LED
[Symbol]	LOW VOLTAGE DIMMER SWITCH
[Symbol]	3-WAY DIMMER SWITCH
[Symbol]	EXT. BOX FOR WALL MTD. LIGHT FIXTURE
[Symbol]	EXT. BOX FOR SURFACE LIGHT FIXTURE
[Symbol]	LED FOR UNDER CABINET LIGHTING
[Symbol]	CHANDLER LIGHT FIXTURE
[Symbol]	FAN RATED
[Symbol]	CEIL'G RECESSED LED LIGHT FIX. 8" 6" 4" 3"
[Symbol]	FL FIXTURE FLUOR.
[Symbol]	ASHRAE 62 100 CFM FAN OR 80 CFM OR 60 CFM DOOR BELL (CHIMES)
[Symbol]	TELEVISION
[Symbol]	PANASONIC CEILING EXHAUST FAN
[Symbol]	PANASONIC EXHAUST FAN W/ LIGHT REQUIRES 2-SWITCHES AND HUMIDIFIER (BATHROOMS)
[Symbol]	LED LIGHTG (UNDER-CABINET LIGHTING)
[Symbol]	SMOKE DETECTOR: SEC. R315 CIRC 2015
[Symbol]	HARD-WIRED W/BATTERY BACKUP, CARBON MONOXIDE DET. SEC. R315 CIRC 2019 (HIGH EFFICACY EXTERIOR FIXTURES)
[Symbol]	PMS PHOTO-MOTION SENSOR CONTROLLED
[Symbol]	OUTDOOR LIGHTING SHALL BE HIGH EFFICACY, CONTROLLED BY ONE OF THE FOLLOWING:
[Symbol]	1. PHOTOMOTION CONTROL SENSORS
[Symbol]	2. PHOTOSENSOR & AUTO. CONTROL TIME SWITCH
[Symbol]	3. ASTRONOMICAL TIME SWITCH
[Symbol]	4. EMS ENERGY MANAGEMENT CONTROL SYSTEMS
[Symbol]	300 EXT. ELEC. PANEL 300 AMP.
[Symbol]	200 EXT. ELEC. PANEL 200 AMP.
[Symbol]	150 EXT. ELEC. PANEL 150 AMP.
[Symbol]	100 SUB PAN 100 AMP
[Symbol]	CEILING FAN
APPROVAL STAMP	

A REMODEL FOR 1ST. FLOOR & 2ND. FLOOR ADDITION FOR:
THE SANTOSH SHAH RESIDENCE
 684 MARSHALL CT., SANTA CLARA CA. 95059
 PLAN NO. LOU COSTANZO 1001 SAN GABRIEL WAY, S.J. 95128 408-264-0220
 STRUCTURAL ENGINEERS TONY TRUONG PE. 408 892-0228

PROPOSED FIRST & SECOND FLOORS ELECTRICAL PLAN

DRAWN: LOU COSTANZO
 CHECKED: S.C.
 DATE: 8-12-24
 SCALE: 1/4" = 1'-0"
 JOB NO.: S2023-B
 SHEET REV: A4R REVISION

OTHER ELECTRICAL NOTES

- RECESSED LIGHTING IN BATHROOM AREAS... REFER TO PLAN'S GENERAL NOTES.
- ELECTRICAL DEVICES ARE SHOWN SCHEMATICALLY AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR WORK COMPLIANCE TO CODE SPEC. CEC RIBS.
- ELECTRICAL SERVICE SHALL BE LOCATED IN THE VICINITY OF THE CLOSEST DISTANCE TO UTILITY SERVICE. KITCHEN FOR SMALL APPLIANCES, CONTRACTOR TO PROVIDE TWO 20 AMP CIRCUITS.
- INTERIOR SUB PANELS SHALL NOT BE LOCATED IN THE VICINITY OF EASILY FLAMMABLE MATERIALS, SUCH AS CLOTHES CLOSETS.
- LIGHTING REQUIREMENTS IN COMPLIANCE WITH: 2022 CA ENERGY CODE SEC. 150(K) WHICH INCLUDE THE FOLLOWING:
 - ALL LIGHTING AS HIGH EFFICACY. THE PIN-BASED CFL, PULSE-START MH/PLS/24 SOCKETS OTHER THAN LED'S, LED LUMINAIRES WITH INTEGRAL SOURCE, ETC. CEC TABLE 508(A).
 - SCREEN-BASED PERMANENTLY INSTALLED LIGHT FIXTURES MUST CONTAIN A SCREEN BASED LIGHT SOURCE. APPENDIX B COMPLIANT LAMPS AS COMPLIANT LIGHT SOURCES MUST BE MARKED AS "AS-200P" (7/18/2022) E-14S-2023-F. LUMINAIRES ARE DEEMED APPROPRIATE FOR USE IN ENCLOSED LUMINAIRE CEC 150(B)(3).
 - ALL AS COMPLIANT LIGHT SOURCES IN THE FOLLOWING LOCATIONS ARE CONTROLLED BY VACANCY SENSORS OR DIMMERS: C.E.C. 150(B)(2) LESS THAN 7'8", AND HALLWAYS CEC 150(B)(2) C.E.C. 150(B)(2) LESS THAN 7'8", DOWNLIGHT LUMINAIRES, LED LUMINAIRES WITH INTEGRAL SOURCES, PIN-BASED LED LAMP (6 MR16, AR11, ETC.) C.E.C. 24 BASED LED LIGHT SOURCES.
 - ALL BATHROOM LIGHTING SHALL BE HIGH EFFICACY WITH AT LEAST ONE BATHROOM LIGHT TO BE CONTROLLED BY A VACANCY SENSOR.
 - AT LEAST ONE FIXTURE IN GARAGE CONTROLLED BY A VACANCY SENSOR CEC 150(B)(2).
 - AT LEAST ONE FIXTURE IN LAUNDRY CONTROLLED BY A VACANCY SENSOR CEC 150(B)(2).
 - AT LEAST ONE FIX. IN UTILITY ROOM CONTROLLED BY A VACANCY SENSOR (150(B)(2)).
 - EXHAUST FANS (EXCLUDES KITCHEN EXHAUST HOODS) SWITCHED SEPARATELY FROM LIGHTING FOR TILZE A REVERSE WHERE LIGHTING CAN BE TURNED OFF WHILE THE FAN IS RUNNING.
 - SEPARATE SWITCHING FOR ANY UNDER CABINET LIGHTING (ENL. KITCHEN LIGHTING) FROM OTHER LIGHTING SYSTEMS. CEC 150(B)(2).
 - OUTDOOR LIGHTING AS HIGH EFFICACY WITH MANUAL ON/OFF SWITCH AND ONE OF THE FOLLOWING: 1. PHOTO CONTROL AND MOTION SENSOR, 2. PHOTO CONTROL, AND AUTOMATIC TIME SWITCH CONTROL, 3. ASTRONOMICAL TIME SWITCH CONTROL, 4. ENERGY MANAGEMENT CONTROL SYSTEMS.

- LIGHTING IN ALL BEDROOM AREAS, HALLWAYS SHALL:
 - PROVIDE DIMMER SWITCH.
 - PROVIDE MANUAL OCCUPANCY SENSOR AND MOTION SENSOR THAT COMPLETS WITH AND SHALL NOT HAVE A MOTION CONTROL THAT ALLOWS THE LUMINAIRES TO BE TURNED ON AUTOMATICALLY OR HAS AN OVERRIDE ALLOWING THE LUMINAIRES TO BE ALWAYS ON.
 - CLOSETS LESS THAN 7'8", ARE EXCEPTED FROM LIGHTING REQUIREMENTS.
 - LUMINAIRES IN INSULATED CEILING SHALL BE IC RATED & AIR TIGHT (AFTER ALL RECESSED LUMINAIRES).
 - TERMINATION OF ALL ENVIRONMENTAL AIR DUCTS SHALL BE A MIN. OF 3 FEET FROM ANY OPENING INTO THE BUILDING (LED DRIVERS, BATHROOMS, AND UTILITY FANS, AND MUST BE AT LEAST 3 FEET FROM BROOMS, WINDOWS, OPENING SKY LIGHTS, OR ATTIC VENTS.

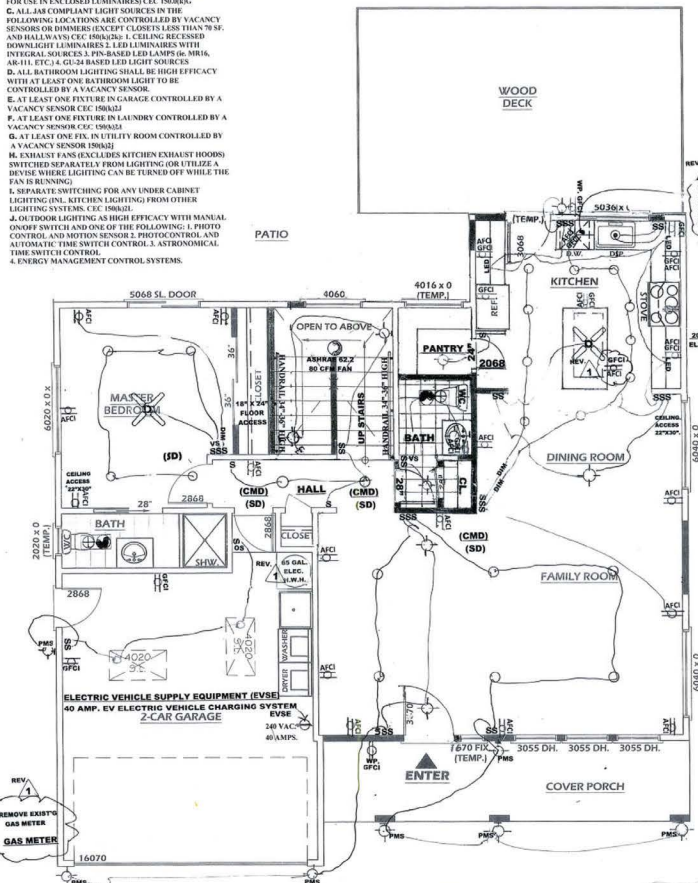
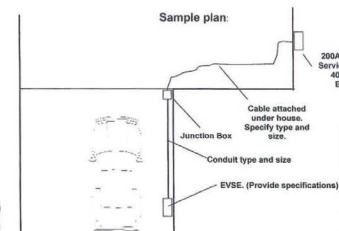
**Electric Vehicle Supply Equipment (EVSE)
California Electrical Code (CEC), Green Building Code (GBC), California Residential Code (CRC), California Building Code (CBC)**

- Submittal Requirements for an EV charging system installed in the garage, carport or outdoors shall provide the following information:
 - Type of charging system (Level 1, level 2, etc.)
 - Size of EVSE electrical circuit (most level 2 chargers require a minimum 40-amp 2-pole circuit)
 - Size of the existing electrical service and load calculation (to determine if a service upgrade will be required).
 - A floor plan / plot plan showing the location of the EVSE.
 - Specify the type of receptacle on the plan.
 - All electrical materials must be listed by a Nationally Recognized Testing Laboratory, such as UL, ETL, CSA, etc.
 - Provide manufacturer specifications of charging equipment.
- Some electric vehicles include AC-DC conversion equipment in the vehicle, and these plug into standard electrical receptacles that are installed for that purpose. Others have the AC-DC conversion equipment mounted to the wall, and a cord with an Electric Vehicle Connector (EVCC) standard) is connected to the vehicle.
 - Each outlet installed for the purpose of charging electric vehicles shall be supplied by an individual branch circuit. Each circuit shall have no other outlets. (CEC 625.40)
 - All receptacles installed for the connection of electric vehicle charging shall have ground-fault circuit-interruption protection for personnel. (CEC 625.54)
 - Branch Circuit conductors shall be sized for continuous duty or not less than 125% of the maximum load of the equipment. (CEC 625.41)
 - Disconnecting Means for equipment rated more than 60 amperes or more than 150 volts to ground, the disconnecting means shall be provided and installed in a readily accessible location. The disconnect means shall be lockable with CEC 110.25 (CEC 625.43)
 - Newly constructed one- and two-family dwellings and townhouses with attached private garages shall comply with EV infrastructure requirements in accordance with the California Building Code (CBC 209.8, GBC 4.016.4)
 - In private garages with two or more parking spaces, install one Level 2 EV Ready Space and one Level 1 EV Ready Space.
 - For each dwelling unit with only one parking space, install one Level 2 EV Ready Space.

Definitions: Level 1 EV Ready, Level 2 EV Ready

- Level 1 EV Ready Space: A parking space served by a complete electric circuit with a minimum of 110/120 volt, 20-ampere capacity including electrical panel capacity, overprotection device, a minimum 1" diameter raceway that may include multiple circuits as allowed by the California Electrical Code, wiring, and either a) a receptacle labeled "Electric Vehicle Outlet" with at least a 1/2" front adjacent to the parking space, or b) electric vehicle supply equipment (EVSE).
- LEVEL 2 EV Ready Space: A parking space served by a complete electric circuit with 208/240 volt, 40-ampere capacity including electrical panel capacity, overprotection device, a minimum 1" diameter raceway that may include multiple circuits as allowed by the California Electrical Code, wiring, and either a) a receptacle labeled "Electric Vehicle Outlet" with at least a 1/2" front adjacent to the parking space, or b) electric vehicle supply equipment (EVSE) with a minimum output of 30 amperes.

When EVSE are installed, the vehicle stall served by the EVSE is defined by California Building Code Section 202 as an Electric Vehicle Charging Station (EVCS), and the primary purpose of the vehicle stall is for charging of electric vehicles. California Building Code Part 2 Chapter 110 and the Americans with Disabilities Act establish requirements to provide accessible EV charging. Chapter 110 sets prescriptive requirements for the quantity and attributes of accessible spaces.



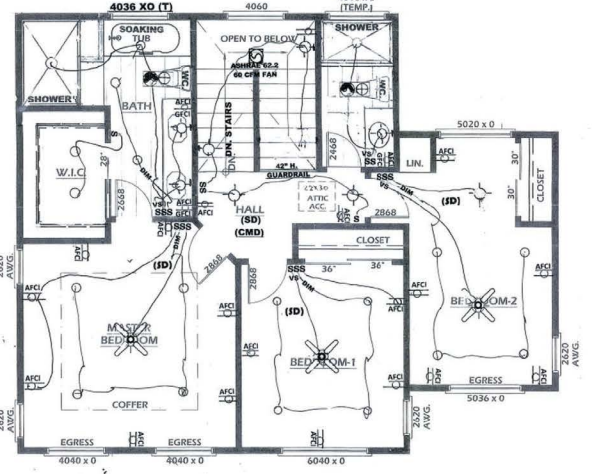
WALL LEGEND

	NEW 2x4 D" STUD WALL @ 16" O.C.
	EXISTING 2x STUD WALL

NOTE: ELECT. HOT WATER HEATER: RHEEM 65 GAL. NEHA HEAT PUMP MODEL PROPRI T2 RH37515 (65 GAL. JA13) HEATING/COOLING: HEAT PUMP SYSTEM CENTRAL SPLIT HP (SEE TITLE 24 HVAC HEAT PUMPS)

PROVIDE GFCI/AFI PROTECTION FOR OUTLET THAT SUPPLIES RECEPTACLE. SEE REC 250.50 THE GROUNDING OF RECEPTACLE MUST BE ACCESSIBLE (NOT BEHIND APPLIANCE).

NOTE: ALL NEW 15-20-AMPERE, 125- & 250-VOLT NON-LOCKING-TYPE, RECEPTACLE OUTLETS SHALL BE LISTED TAMPER-RESISTANT RECEPTABLES, (CEC 406.12), UNLESS RECEPTACLE IS PART OF AN APPLIANCE OR INSTALLED HIGHER THAN 5.5 FT. ABOVE THE FLOOR. FOR ALL EXCEPTIONS REFER TO CEC



FOR GAS PIPE SIZING AND ELECTRICAL LOAD CALCULATIONS DESIGN BUILT APPROACH THE GENERAL CONTRACTOR AND LICENCED PLUMBING, ELECTRICAL & MECHANICAL SUBCONTRACTORS SHALL SUBMIT THEIR OWN CALCULATIONS ONE LINE DIAGRAMS WHEN PULING PERMITS.

SMOKE ALARMS CRC 314
INSTALL SMOKE ALARMS IN EACH SLEEPING BEDROOM; OUTSIDE EACH SEPARATE BEDROOM IN THE IMMEDIATE VICINITY OF THE BEDROOMS; AND ON EACH ADDITIONAL STORY OF THE DWELLING INCLUDING BASEMENTS AND HABITAT ATTICS.

CARBON MONOXIDE ALARMS CRC 315
INSTALL CO ALARMS OUTSIDE OF EACH SEPARATE DWELLING UNIT SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS; AND ON EVERY LEVEL OF THE DWELLING UNIT, INCLUDING BASEMENTS.

ELECTRICAL SYMBOLS

- DIPLX WALL OUTLET
 - AFCI ARC-FAULT-CIRCUIT INTERRUPTER
 - GFI GROUND-FAULT CIRCUIT INTERRUPTER
 - DIPLX WALL SWITCHED OUTLET
 - CEILING DUPLEX OUTLET
 - SINGLE PLUG RECESSED FLOOR OUTLET
 - 220V 2-C. 220 V. CLOTHES DRYER/VEHICLE IN
 - W.P. EXT. WEATHERPROOF DUPLEX OUTLET
- ALL LIGHTING SHALL BE HIGH EFFICACY**
- LIGHT SWITCH
 - 3-WAY LIGHT SWITCH
 - VACANCY SENSOR
 - OCCUPANCY SENSOR LIGHT SWITCH
 - DIMMER LIGHT SWITCH W/LED
 - LOW VOLTAGE DIMMER SWITCH
 - 3-WAY DIMMER SWITCH
- EXT. BOX FOR WALL MTD. LIGHT FIXTURE
 - EXT. BOX FOR SURFACE LIGHT FIXTURE
 - LED FOR UNDER CABINET LIGHTING
 - CHARACTER LIGHT FIXTURE
 - FAN RATED
 - CEIL'G RECESSED LED LIGHT FIX. 6" 6", 4", 3"
 - FIXTURE FLOOR.
 - ASHRAE 62 (100 CFM FAN OR 80 CFM OR 60 CFM
 - DOOR BELL (CHIMES)
 - TELEVISION
 - PANASONIC CEILING EXHAUST FAN
 - PANASONIC EXHAUST FAN W/LIGHT REQUIRES SWITCHES AND HUMIDIFIR (BATHROOMS)
 - LED LIGHTS DIMMER-CABINET LIGHTING
 - SMOKE DETECTOR (SEE 315 CRC 201)
 - HARD-WIRED W/BATTERY BACKUP.
 - CARBON MONOXIDE DET. (SEE 315 CRC 201)
 - HIGH EFFICACY EXTERIOR FIXTURES
 - PHOTO-MOTION SENSOR CONTROLLED
 - OUTDOOR LIGHTING SHALL BE HIGH EFFICACY, CONTROLLED BY ONE OF THE FOLLOWING:
 - PHOTOMOTION, CONTROL, SENSORS,
 - PHOTOSENSOR & AUTO. CONTROL TIME SWITCH.
 - ASTRONOMICAL TIME SWITCH
 - EMCS ENERGY MANAGEMENT CONTROL SYSTEMS
 - EXT. ELEC. PANEL 300 AMP.
 - EXT. ELEC. PANEL 200 AMP.
 - EXT. ELEC. PANEL 150 AMP.
 - SUB PAN 100 AMP
 - CEILING FAN

Revision	By
1	2-8-24 LC

PLAN COMMENTS TO LOU COSTANZO CONTRACTOR:
RECEIVED FROM THE ARCHITECT: 7-18-23
REVISED BY: LC
DATE: 2-8-24

A REMODEL FOR 1ST FLOOR & 2ND STORY ADDITION FOR THE SANTOSH SHAH RESIDENCE
664 MARSHALL CT., SANTA CLARA CA. 95050
LOU COSTANZO ARCHITECTS
STRUCTURAL ENGINEER: TONY TRUONG P.E. 408-899-0220

PROPOSED FIRST & SECOND FLOORS ELECTRICAL PLAN

DESIGN: LOU COSTANZO
CHECKED: S.C.
DATE: 7-18-23
SCALE: 1/4" = 1'-0"
JOB NO: S2023-8
SHEET

A4

TYPICAL STAIR CONSTRUCTION (STAIRWELL OPEN TO ABOVE)

- A. STAIR SLOPE AND RUN TO 17" ±
 - B. 2" X 12" DF#1 STRINGERS
 - C. 2" X SPACER W/16#s @ EACH STUD.
 - D. 3/4" CDX PLYWOOD FOR STEPPERISER.
 - E. STEP: 12 INCHES, 10 INCHES MIN.
 - F. NOSE: 1 INCH
 - G. RISE: 7.5"
 - H. 2" X 4" DF#2 CLEAT W/3-16's
 - I. 2" X FIRE BLOCKING AT SFT. MAX.
 - J. USE 5/8" TYPE (X) GYP. BOARD ON UNDERSIDE OF STAIRCASE.
 - K. HANDRAIL W/2 X BLOCKING AT 34"-36" HIGH, 1 1/2" SPACED BETWEEN WALL AND HANDRAIL WITH METAL BRACKETS.
 - L. 2ND. FLOOR 42" PONY WALL W/2 X 6" FINISHED CAP S.S.D.
 - OR RAILING/WITH BALUSTRADE 42", HIGH, SPACED < 3 3/4".
- NOTE: ANY ROOF OVERHANG INTO SETBACKS & WITHIN 4FT. OF PROPERTY LINE SHALL HAVE UNDEREAVE FIRE-PROTECTION. SEE DET. 1/E1

FLOOR BEAM LIST

- 54. FLOOR BM. 1: 5.25" X 14.0" 2.2E PSL BM. W/IGUSS5012 FACE MT. HANGER & EPCZ'S HANG. BM. CONN. & 4 X 6 DF#1 POST. BM. SUPPORT
 - 55. FLOOR BM. 2: 5.25" X 14.0" 2.2E PSL BM. W/IGUSS5012 FACE MT. HANGER & EPCZ'S HANG. BM. CONN. & 4X6 DF#1 POST BM. SUPPORT
 - 56. FLOOR BM. 3: 5.25" X 14.0" 2.2E PSL BM. W/EPCZ'S & PCZ'S POST CAP
 - 57. FLOOR BM. 4: 3.5" X 14.0" 2.2E PSL BM. W/IGUSS 12 HANG. S.S.D.
 - 58. FLOOR BM. 5: 5.25" X 14.0" 2.2E PSL BM. S.S.D.
 - 59. FLOOR BM. 6: 3.5" X 14.0" 2.2E PSL BM. S.S.D.
 - 60. FLOOR BM. 7: 3.5" X 14.0" 2.2E PSL BM. S.S.D.
 - 61. FLOOR BM. 8: 3.5" X 14.0" 2.2E PSL BM. S.S.D.
 - 62. FLOOR BM. 9: 5.25" X 14.0" 2.2E PSL BM. W/IC TO HEADER S.S.D.
 - 63. FLOOR BM. 10: 3.5" X 14.0" 2.2E PSL BM. W/IC & IGUSS 12 HANGER & FACS MT. & IC TO HDL. FLOOR BM. MAX POST BM. SUPPORT.
- BALCONY FRAMING WALL AT STAIRCASE:**
- 64. 2 X 6" DF#2 STUDS @ 16" O.C. (UNO) S.S.D.
 - 65. DBL 2X6 DF #2 TOP PLATE
 - 66. 2 X 6 DF # 2 BOTTOM PLATE

FOUNDATION

- 35. 2" X 6" PTDF MUDSILL WITH 55" A.B. @ 48" O.C. U.O. S.S.D.
- 36. 4" X 6" PTDF GIRDERS TYP. S.S.D.
- 37. GRADE SOIL AWAY FROM FDN. 5% AT 18" @
- 38. 5" THICK CONC. SLAB W/4 BARS AT 16" O.C. EA. WAY @ MIDSPAN
- 39. 15 MIL. MOISTURE BARRIER @ 6" 3/4" CLEAR CRUSHED ROCK. SSD.
- 40. DBL 2 X BLOCKING UNDER WALLS S.S.D.
- 41. PREFAB COLLECTOR TRUSS PER MFG.
- 42. 2 X 4 BLOCK'G
- 43. STAIRCASE BEYOND
- 44. WALL BEYOND SEE S.S.D.
- 45. STC CLIPS @ 32" O.C. TO CLIP INTERIOR WALLS TO TRUSSES/BLKG
- 46. 2 X 2 BLOCKING UNDER 1ST. FLOOR WALLS
- 47. 2" X BLOCKING @ 24" O.C.
- 48. 2" X FIRE BLOCKING AT SFT.
- 49. 2 X 6" DF#1 F.J. @ 16" O.C. S.S.D.
- 50. NEST STRAP S.S.D.
- 51. 8 INCHES CLEAR FROM SOIL, MINIMUM, TO WOOD STRUCTURE.
- 52. 18 INCHES DEEP TO BOTTOM OF FOUNDATION
- 53. 18 INCHES MIN. FROM BOTTOM OF F.J. TO SOIL

SIDING WITH BATTEN (OPTIONAL TO STUCCO) 02- LAYERS "D" PAPER

- OF 1/2" CDX PLYWD. NAIL W/8'S @ 6" O.C. & 12" O.C.
 - 18. 7/8" STUCCO (3- LAYERS W/ WIRE MESH) OVER 2- LAYERS "D" PAPER @ 12" CDX PLYWD. NAIL WITH 84 NAILS @ 6" NDS, 12" FIELD @ 1/2" CDX PLYWD. NAIL W/ 84 NAILS @ 6" O.C. ENDS, & 12" O.C. FIELD
- WALLS:**
- 19. 2 X 4 DF #2 SOLE PLATE: SECURE 16#s @ 16" O.C. S.S.D
 - 20. 2 X 4 DF#2 STUDS @ 16" O.C. TYPICAL
 - 21. 2-2 X 4 DF#2 TOP PLATE TYP.
 - 22. 2 X 12" DF#1 BM. @ WINDOWS/DOORS U.O.N. S.S.D.
 - 23. 1/2" GYP BOARD: (WALLS) & 5/8" FOR (CEILING)
 - 24. 5/8" TYPE (X) GYP. BOARD FROM THE SILL PLATE THROUGH TO ROOF PLYWOOD ON GARAGE WALLS COMMON WITH LIVING (1ST. FLOOR) AND
 - 25. TWO LAYERS min. 1/2" TYPE (X) GYP. BD. WITH 12" S.S. SCREWS @ 6" O.C. (I) & 10" O.C. @ (F) FOR GARAGE
 - CEILING UNDER 2ND. FLOOR. (USE FIRE RATED CAULKING)
 - 26. WEEP SCREED PER CODE #7 TO GRADE & 2" TO CONCRETE SLAB
 - 27. A 35 SIMPSON CLIP
 - 28. H2.5s. HURRICANE CLIP @ EA. TRUSS
 - 29. SIMPSON HANGER S.S.D.
- FLOOR:**
- 30. 3/4" T & G. PLYWD. SUB. FLOOR A.P.A. RATED "STURD-1 FLR." (SECURED WITH GRABBER #8 SCREWS @ 6" O.C. ENDS) & 10" O.C. (FIELD)
 - 31. 2 X 6" FLOOR JOISTS @ 16" O.C. TYP. S.S.D. 1st. FLOOR
 - 32. 2 X BLOCKING VENTED @ 16" O.C. (16"X30" OR 14"X30" SCREED VENTS)
 - 33. 14.0 OPEN WEB FLOOR JOISTS @ 16" O.C. S.S.D
 - 34. OPEN WEB FLOOR JOIST & 2 X BLOCKING UNDER ALL NEW PARALLEL & PERPENDICULAR WALLS

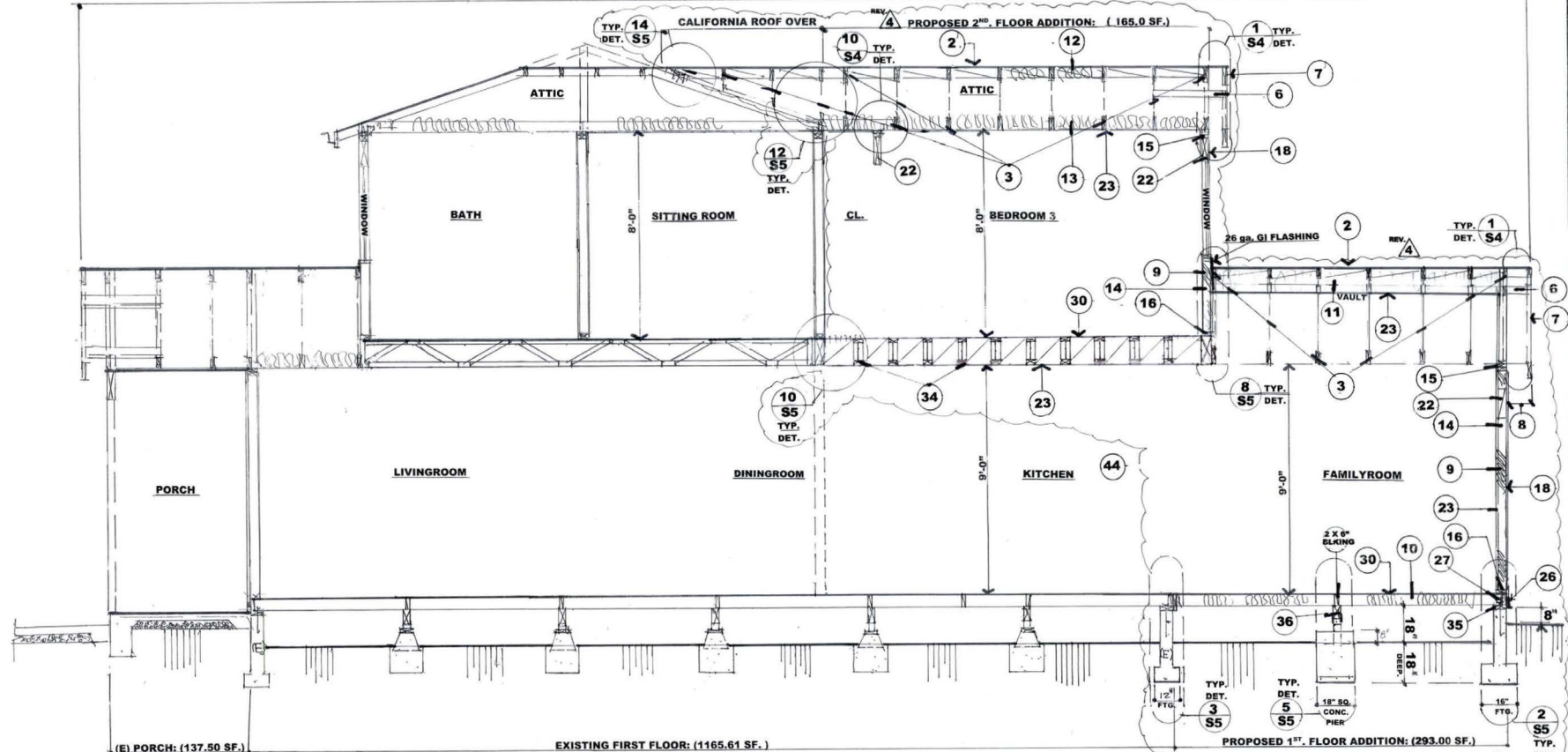
APPROVAL STAMP

REVISIONS	BY
REV. 4	B-12-24

50 YEAR "A" COMPOSITION ROOF'G, ICC ES ESR 1389 TYP. 0/30# FELT @ 1/2" CDX, FOILBACKED, PLYWOOD. NAIL W/8's @ 6" O.C. (ENDS) & 12" O.C. (FIELD). SECURE WITH CORROSION RESISTANT FASTENERS (CRC R905.2.5) OVER ENGINEERED ROOF TRUSSES MANUFACTURED BY ADVANTAGE TRUSS CO.

ROOF/CEILING:

- 1. G1 GUTTER @ 2X FASCIA W/DOWNSPOTS TO FRENCH DRAIN. TYP.
- 2. 50 YR. PRESIDENTIAL (C) COMP. ROOF'G IC ES ESR 1389 O 2 layers of 30# FELT @ 1/2" CDX/FOIL-BACKED, A.P.A. RATED. PLYWD NAIL W/8'S @ 6" O.C. (I) 12" O.C. (FIELD). SECURE ROOF'G WITH CORROSION RESISTANT FASTENERS (CRC R905.2.5 & R905.2.6)
- 3. MFG. TRUSSES BY ADVANTAGE TRUSS CO. @ 24" O.C. SEE ATTACHED FOR DESIGNS AND CALCS.
- 4. 1/2" T & G DECK'G @ EAVES, OVER- HANGS & PORCH CEIL'G. (U.O.N)
- 5. 2 X BLOCKING VENTED W/3-16#s. HOLES EA. BLOCK W/4 MESH) U.M.O.
- 6. 2 X 4" OUTRIGGERS @ 24" O.C. TYP.
- 7. 2 X 8" MIN. BARGE (END) RAFTERS OPTIONAL
- 8. 12" OVERHANGS & 12" EAVES. TYP. U.O.N.
- 9. R-15 BATT. INSULATION (EXT. & INTERIOR WALLS)
- 10. R-15 BATT. INSULATION (FLOOR) & RAISED FLR. W/NO CRAWSPACE.
- 11. R-19 CLOSED CELL INSULATION
- 12. R-19 INSULATION: (ROOF RAFTER/TRUSS BAYS)
- 13. R-38 BATT. INSULATION (CEILING)
- 14. 2 X 6" DF#2 STUDS @ 16" O.C. PLUMBING WALLS.
- 15. 2-2 X 6 DF#2 TOP PLATE TYP.
- 16. 2 X 6 SOLE PLATE
- 17. 48" X 96" X 5.16" HARDIE NZS CEDAR MILL VERTICAL PANEL



SECTION C-C
SCALE - 1/8" = 1' - 0"

REVISIONS	BY
REV. 4	B-12-24

PLAN COMMENTS TO: LOUCOSTANZO.COM

A REMODEL FOR 1ST. FLOOR & 2ND. STORY ADDITION FOR:
THE SANTOSH SHAH RESIDENCE
 684 MARSHALL CT., SANTA CLARA CA. 95050
 PLAN: LOU COSTANZO 1501 SAN GABRIEL WAY, S.J. 95125-408-264-0220
 STRUCTURAL ENGINEER: TONY TRUONG PE. 408 894-0220

8-12-24
 Lou Costanzo

PLAN SECTIONS

DRAWN: LOU COSTANZO
 CHECKED: S.C.
 DATE: 8-12-24
 SCALE: 1/8" = 1'-0"
 JOB NO. S2023-8
 SHEET REV. 1
A5.2R
 REVISION

1. Revise Table R602.3(1) as follows:

TABLE R602.3(1)

ITEM	DESCRIPTION OF BUILDING ELEMENTS	FASTENER SCHEDULE FOR STRUCTURAL MEMBERS NUMBER AND TYPE OF FASTENER	SPACING OF FASTENERS
Roof			
1	Blocking between joists or rafters to top plate, toe nail	3-8d (2" x 0.113")	-
2	Collar joists to plate, toe nail	3-8d (2" x 0.113")	-
3	Ceiling joist not attached to parallel rafter, laps over partitions, face nail	3-10d	-
4	Color tie to rafter, face nail, or 1-1/4" x 20 gauge ridge strap	3-10d (2" x 0.187")	-
5	Rafter to plate, toe nail	2-16d (3" x 0.135")	-
6	Roof rafters to ridge, valley or hip rafters, toe nail	4-16d (3" x 0.135")	-
7	Roof rafter	3-16d (3" x 0.135")	-
Wall			
7	Build-up corner studs, chime nail	10d (3" x 0.135")	3d a.c.
8	Abutting studs at intersecting wall corners, face nail	16d (3" x 0.135")	12" o.c.
9	Build-up header, two pieces with 1/2" spacer	16d (3" x 0.135")	16" o.c. along each edge
10	Continued header, two pieces	16d (3" x 0.135")	16" o.c. along each edge
11	Continuous header to stud, toe nail	4-8d (2" x 0.113")	-
12	Double studs, face nail	16d (3" x 0.135")	3d a.c.
13	Double top plates, face nail	16d (3" x 0.135")	3d a.c.
14	Double top plates, minimum 24 inch offset of end joints, face nail in lapped area	8-16d (3" x 0.135")	-
15	Soile plate to post or blocking, face nail	16d (3" x 0.135")	16" o.c.
16	Soile plate to post or blocking at braced wall panels	3-16d (3" x 0.135")	16" o.c.
17	Stud to soile plate, toe nail	3-8d (2" x 0.113")	-
18	Top of soile plate to stud, end nail	2-16d (3" x 0.135")	-
19	Top plates, laps at corners and midspans, face nail	2-16d (3" x 0.135")	-
20	1" brace to each stud and plate, face nail	2-8d (2" x 0.113")	2 staples 1/4"
21	1" x 8" sheathing to each bearing, face nail	2-8d (2" x 0.113")	2 staples 1/4"
22	1" x 8" sheathing to each bearing, face nail	2-8d (2" x 0.113")	2 staples 1/4"
23	Wooder than 1" x 8" sheathing to each bearing, face nail	3-8d (2" x 0.113")	2 staples 1/4"
24	Joist to sill or girder, toe nail	3-8d (2" x 0.113")	2 staples 1/4"
25	Trim nail to top plate, toe nail (roof applications only)	8d (2" x 0.113")	6" o.c.
26	Trim nail or blocking to sill plate, toe nail	8d (2" x 0.113")	6" o.c.
27	1" x 4" subfloor or top to each joist, face nail	3d 27 (3/8" x 0.113")	2 staples 1/4"
28	2" subfloor or top to girder, blind and face nail	2-16d (3" x 0.135")	-
29	2" planks (plank & beam - floor & roof)	2-16d (3" x 0.135")	at each bearing
30	Build-up girders and beams, 2 inch lumber ties	10d (3" x 0.135")	at each bearing
31	Ledger strip supporting joists or rafters	3-16d (3" x 0.135")	-

(Remainder of table unchanged except item numbers)

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VENTILATION CALCULATIONS

1. THE SANTOSH SHAH RESIDENCE

1. SUB FLOOR: 1165.61 SF. + 293.00 ADD. = 1459.00 SF.
 1459.00 SF. ÷ 150.00 SF. = 9.73 X 144 = 1401.12 S.L.
 (VERIFY & PROVIDE) 16" X 6" FDN. SIZE
 14" X 6" = 84 S.L. WITH EFF. 52 S.L. VENT PER MFG. SPECS
 1401.12 S.L. ÷ 52.0 S.L. = 26.94 OR 27 FDN. VENTS
 (VERIFY OR PROVIDE FDN VENTS)

2. GARAGE ATTIC VENTILATION: 189.63 SF.
 (8.5' X 18.3' = 155.13 SF.) + (11.5' X 3.0' = 34.5 SF.) =
 189.63 SF. ÷ 300 = 0.63 SF. X 144 = 91.01 ÷ 2 = 45.41 S.L.
 INSTALLED AT LEVEL:
 WITHIN 3 FT. ABOVE WALL TOP PLATE 45.41 S.L.
 (FIRE-RATED UNDER EAVES)
 (NO UNDER EAVE BLOCK'G HOLES ALLOWED)
 INSTALL (1) MASTER FLOW ROOF VENT @ 60 S.L.
 60.0 S.L. > 45.41 S.L. OK.

WITHIN 3 FT. BELOW RIDGE
 PROVIDE (1) WALL VENT 12" X 18" = 216 S.L.
 216 S.L. X .60 EFF. = 129.6
 129.6 S.L. > 45 S.L. OK.

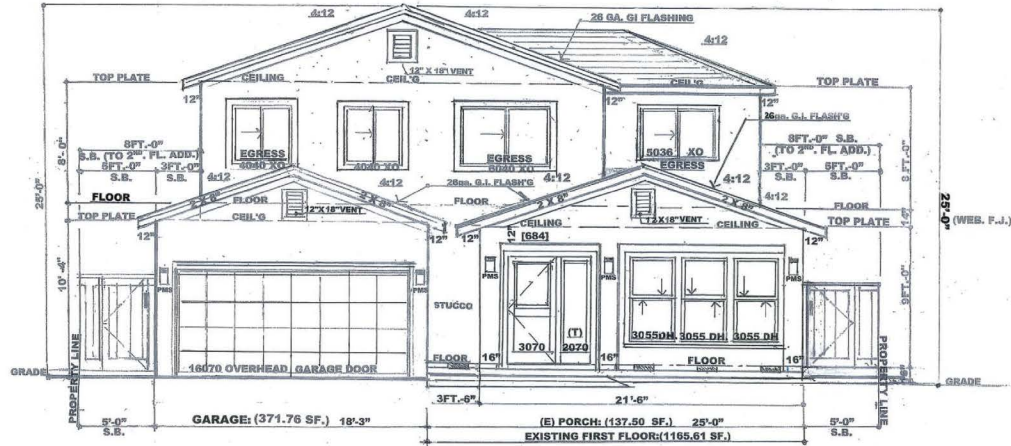
TOTAL GARAGE ATTIC VENTILATION:
 (1) MASTER FLOW ROOF VENT
 (1) EAVE WALL VENT
3. FIRST FLOOR (LIVING) ATTIC:
 LEFTSIDE: 57.0 SF. INST. ALL
 WITHIN 3 FT. ABOVE WALL TOP PLATE
 (FIRE-RATED UNDER EAVE BLK'G VENTS)
 (NO UNDER EAVE BLOCK'G VENTS ALLOWED)
 3'-0" X 19'-0" = 57.0 SF. ÷ 150 = 38 X 144 = 5472 S.L.
 INSTALL: (1) MASTER FLOW VENT = 60 S.L.
 60 S.L. > 54.72 S.L. OK.

RIGHTSIDE: 53.01 SF. (FIRE-RATED UNDER EAVES)
 18.67' X 3.0' = 53.01 SF. ÷ 150 = 0.3534 X 144 = 50.9 S.L.
 INSTALL (1) MASTER FLOW VENT = 60 S.L.
 (NO UNDER EAVE BLK'G VENT HOLES ALLOWED).
 60 S.L. > 50.9 S.L. OK.
FRONT: 106.25 SF. (42.2' X 25.00' = 106.25 SF.)
 106.25 ÷ 300 = 0.3542 X 144 = 51.0 ÷ 2 = 25.5 S.L.
 WITHIN 3 FT. ABOVE TOP PLATE: 25.5 S.L.
 PROVIDE (1) VENTED SCREEN BLOCK:
 @ 22" X 4" = 88 S.L. X .60 EFF. = 52.8 S.L.
 1 X 52.8 S.L. = 52.8 S.L. > 25.50 S.L.
 WITHIN 3 FT. OF RIDGE: 25.50 S.L.
 INSTALL (1) EYEBROW VENT @ 100 S.L.
 100 S.L. > 25.50 S.L. OK.

REAR:
 FAMILY RM. ATTIC: 293.00 SF. USE SMALL CELL FOAM
 WITHIN 3 FT. OF WALL TOP PLATE: 49.83 S.L.
 PROVIDE (1) SCREEN'D BLOCK VENT:
 22" X 4" = 88 S.L. X .60 EFF. = 52.8 S.L. PER VENTED BLOCK.
 52.8 S.L. > 49.83 S.L. OK.
 WITHIN 3 FT. OF RIDGE: 49.83 S.L.
 PROVIDE (1) EYEBROW VENT @ 100 S.L.
 100 S.L. > 49.83 S.L. OK
TOTAL FIRST FLOOR ATTIC VENTILATION:
 (1) EYEBROW VENT
 (2) SCREEN'D VENTS

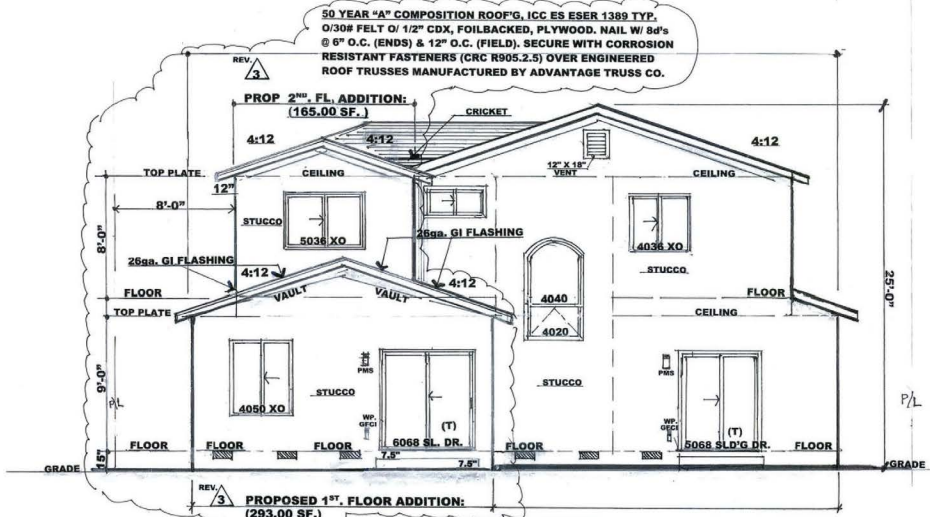
4. SECOND FLOOR ATTIC VENTILATION: 1140.52 SF.
 1140.52 SF. ÷ 300 = 3.80 X 144 = 547.5 S.L. ÷ 2 = 273.68 S.L.
 WITHIN 3 FT. BELOW RIDGE: 273.68 S.L.
 12" X 18" GABLE WALL VENT
 12" X 18" = 216 S.L. X .60 EFF. = 129.6 S.L. PER VENT
 PROVIDE (1) GABLE VENTS
 129.6 X 2 = 259.2 S.L. 388.5 S.L. > 234.0 S.L. OK
 WITHIN 3 FT. ABOVE WALL TOP PLATE: 234.0 S.L.
 PROVIDE (1) EYEBROW VENTS @ 100 S.L. NET E.A.
 300 S.L. > 234.0 S.L. OK
TOTAL SECOND FLOOR ROOF VENTILATION:
 (2) GABLE WALL VENTS
 (3) EYEBROW VENTS

5. PORCH ATTIC: 115.50 SF.
 (21'-0" X 5'-6" = 115.50 S.F.)
 115.5 S.L. ÷ 300 = 0.39 X 144 = 55.44 S.L. ÷ 2 = 27.72 S.L.
 WITHIN 3 FT. ABOVE WALL TOP PLATE
 (FIRE-RATED UNDER EAVE VENT BLK'G REQ.)
 PROVIDE (1) ROOF VENT @ 30 S.L.
 30 S.L. > 27.72 S.L. OK
 WITHIN 3 FT. OF RIDGE: 27.72 S.L.
 INSTALL (1) 12" X 18" GWV = 129.50 S.L.
 129.50 S.L. > 27.72 S.L. OK
 (FOR ARCH. APPEARANCE)



FRONT ELEVATION

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



REAR ELEVATION

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

REVISIONS	BY
3	8-12-24
	L.C.

A REMODEL FOR 1ST. FLOOR & 2ND. FLOOR ADDITION FOR:
THE SANTOSH SHAH RESIDENCE
 684 WASHBURN CT., SANTA CLARA CA. 95050
 PLAN: LOU COSTANZO 1501 SAN GABRIEL WAY, S.J. 95125 408-264-0220
 STRUCTURAL ENGINEER: TONY TRUONG PE. 408 898-0220

ELEVATIONS

DRAWN
 LOU COSTANZO
 CHECKED
 S.C.
 DATE
 8-12-24
 SCALE
 1/4" = 1'-0"
 JOB NO.
 S2023-8
 SHEET

A7R
 REVISION
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 3 SHEETS

VENTILATION CALCULATIONS

THE SANTOSH SHAH RESIDENCE

1. SLB FLOOR: 1165.61 SF. + 293.00 ADD. = 1459.00 SF.
 1459.00 SF. ÷ 150.00 SF. = 9.73 X 144 = 1401.12 S.F.
 (VERIFY & PROVIDE 16" X 6" FIN. SIZE
 14" X 6" = 84 S.L. WITH EFF. 52 S.L. AVEN PER MFG. SPECS
 1401.12 S.L. ÷ 52.0 S.L. = 26.94 OR 27 FDN. VENTS
 (VERIFY OR PROVIDE FDN. VENTS)

2. GARAGE ATTIC VENTILATION: 189.63 SF.
 (8.5' X 18.3' = 155.13 SF.) + (11.5' X 3.0' = 34.5 SF.) =
 189.63 SF. ÷ 300 = 0.63 SF. X 144 = 91.01 ÷ 2 = 45.41 S.L.
 INSTALLED AT LEVEL:

WITHIN 3 FT. ABOVE WALL TOP PLATE 45.41 S.L.
 (FIRE-RATED UNDER EAVE)
 (NO UNDER EAVE BLOCK'G HOLES ALLOWED)
 INSTALL (1) MASTER FLOW ROOF VENT @ 40 S.L.
 60.0 S.L. > 45.41 S.L. OK.

WITHIN 3 FT. BELOW RIDGE
 PROVIDE (1) WALL VENT 12" X 18" = 216 S.L.
 216 S.L. X .60 EFF. = 129.6

129.6 S.L. > 45.41 S.L. OK.

TOTAL GARAGE ATTIC VENTILATION:

(1) MASTER FLOW ROOF VENT

(1) EAVE WALL VENT

3. FIRST FLOOR (LIVING) ATTIC:

LEFTSIDE 57.0 SF. INSTALL
 WITHIN 3 FT. ABOVE WALL TOP PLATE

(FIRE-RATED UNDER EAVE BLK'G VENTS)
 (NO UNDER EAVE BLK'G VENTS ALLOWED)
 3'-0" X 19'-0" = 57.0 SF. ÷ 150 = 38 X 144 = 54.72 S.L.
 INSTALL (1) MASTER FLOW VENT = 60 S.L.
 60 S.L. > 54.72 S.L. OK.

RIGHTSIDE 53.0 SF. (FIRE-RATED UNDER EAVES)
 18.67' X 3.0" = 53.01 SF. ÷ 150 = 0.354 X 144 = 50.9 S.L.
 INSTALL (1) MASTER FLOW VENT = 60 S.L.
 (NO UNDER EAVE BLK'G VENT HOLES ALLOWED)
 60 S.L. > 50.9 S.L. OK.

FRONT: 106.25 SF. (4.25' X 25.00" = 106.25 SF.)
 106.25 ÷ 300 = 0.354 X 144 = 50.9 ÷ 2 = 25.5 S.L.
 WITHIN 3 FT. ABOVE TOP PLATE: 25.5 S.L.

PROVIDE (1) VENTED SCREEN BLOCK:
 @ 22" X 4" = 88 S.L. X .60 EFF. = 52.8 S.L.
 1 X 52.8 S.L. = 52.8 S.L. = 25.50 S.L.

WITHIN 3 FT. OF RIDGE: 25.50 S.L.
 INSTALL (1) EYEBROW VENT @ 100 S.L.
 100 S.L. > 25.50 S.L. OK.

REAR:
 FAMILY RM. ATTIC: 293.00 SF. USE SMALL CELL FOAM
 WITHIN 3 FT. OF WALL TOP PLATE: 49.83 S.L.
 PROVIDE (1) SCREEN'D BLOCK VENT

22" X 4" = 88 S.L. X .60 EFF. = 52.8 S.L. PER VENTED BLOCK.
 52.8 S.L. > 49.83 S.L. OK.

WITHIN 3 FT. OF RIDGE: 49.83 S.L.
 PROVIDE (1) EYEBROW VENT @ 100 S.L.
 100 S.L. > 49.83 S.L. OK.

TOTAL FIRST FLOOR ATTIC VENTILATION:
 (1) EYEBROW VENT
 (1) SCREEN'D VENTS

4. SECOND FLOOR ATTIC VENTILATION: 1140.23 SF.
 1140.23 SF. ÷ 300 = 3.80 X 144 = 547.35 S.L. ÷ 2 = 273.68 S.L.
 WITHIN 3 FT. BELOW RIDGE: 273.68 S.L.

12" X 18" GABLE WALL VENT
 12" X 18" = 216 S.L. X .60 EFF. = 129.6 S.L. PER VENT
 PROVIDE (3) GABLE VENTS

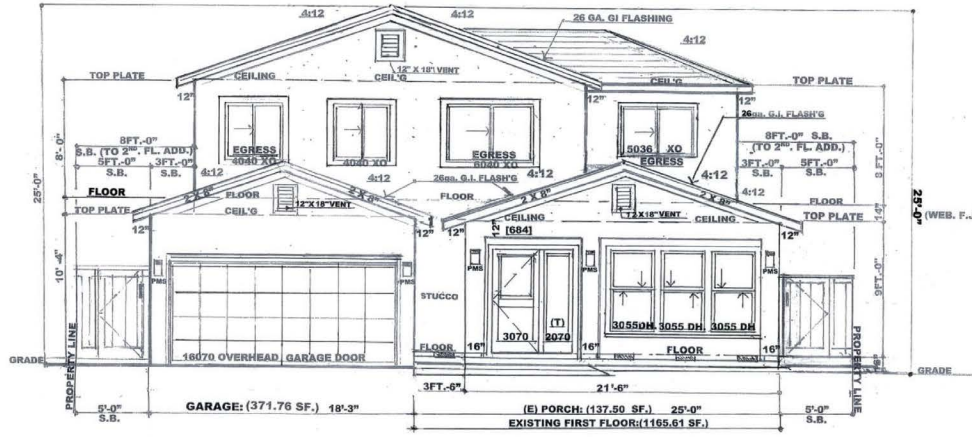
129.6 X 2 = 259.2 S.L. 388.5 S.L. > 234.0 S.L. OK.
 WITHIN 3 FT. ABOVE WALL TOP PLATE: 234.0 S.L.
 PROVIDE (3) EYEBROW VENTS @ 100 S.L. NET F.A.
 300 S.L. > 234.0 S.L. OK.

TOTAL SECOND FLOOR ROOF VENTILATION:
 (3) GABLE WALL VENTS
 (3) EYEBROW VENTS

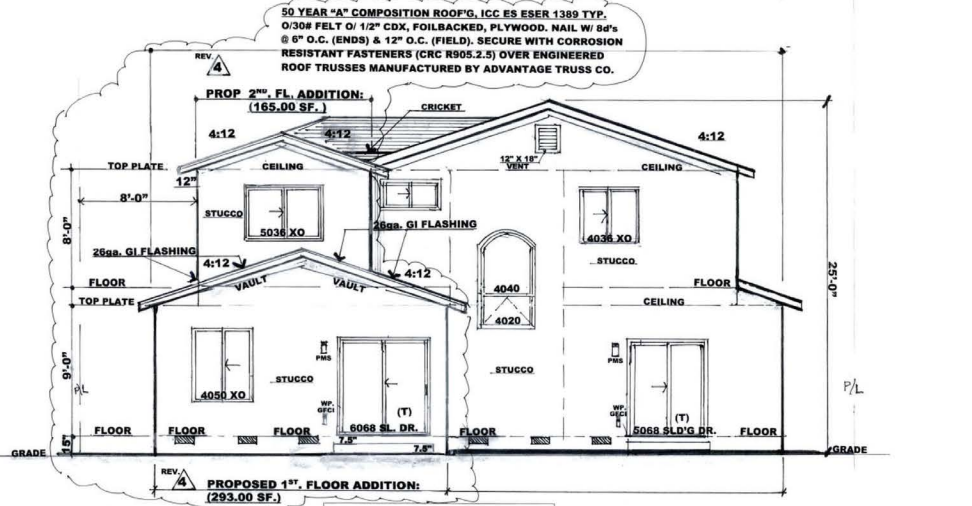
5. PORCH ATTIC: 115.50 SF.
 (21'0" X 5'4" = 115.50 SF.)
 115.5 S.L. ÷ 300 = 0.39 X 144 = 55.44 S.L. ÷ 2 = 27.72 S.L.

WITHIN 3 FT. ABOVE WALL TOP PLATE
 (FIRE-RATED UNDER EAVE VENT BLK'G REQ.)
 PROVIDE (1) ROOF VENT @ 30 S.L.
 30 S.L. > 27.72 S.L. OK.

WITHIN 3 FT. OF RIDGE: 27.72 S.L.
 INSTALL (1) 2" X 18" G.V. = 129.50 S.L.
 129.50 S.L. > 27.72 S.L. OK.
 (FOR ARCH. APPEARANCE)



FRONT ELEVATION
 SCALE - 1/4" = 1' - 0"



REAR ELEVATION
 SCALE - 1/4" = 1' - 0"

REVISIONS	BY
1	L.C.
2	
3	
4	
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10	

PLAN COMMENTS TO:
 LONCOSTANZO.COM
 408-472-3828 CELL
 408-472-3828 HOME

A REMODEL FOR 1ST. FLOOR & 2ND. FLOOR ADDITION FOR:
THE SANTOSH SHAH RESIDENCE
 684 MARSHALL CT., SANTA CLARA CA. 95050
 PLANS: LOU COSTANZO 1801 SAN GABRIEL WAY, S.J. 95125 408-264-0220
 STRUCTURAL ENGINEER: TONY TRUONG PE. 408 899-0220

ELEVATIONS

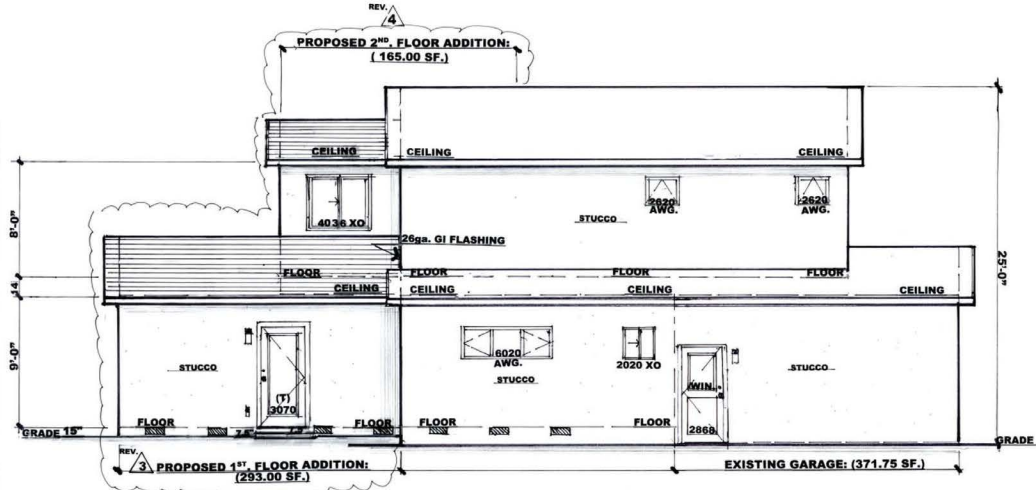
DRAWN
 LOU COSTANZO
 CHECKED
 S.C.
 DATE
 8 - 12 - 24
 SCALE
 1/4" = 1'-0"
 JOB NO.
 S2023-B
 SHEET
A7R
 REVISION
 REV 4 SHEETS

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD
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 Calculation Description: Title 24 Analysis
 Calculation Date/Time: 2024-08-20 13:05:58-07:00
 Input File Name: 0230532 Santosh Shah Residence.rbd22a

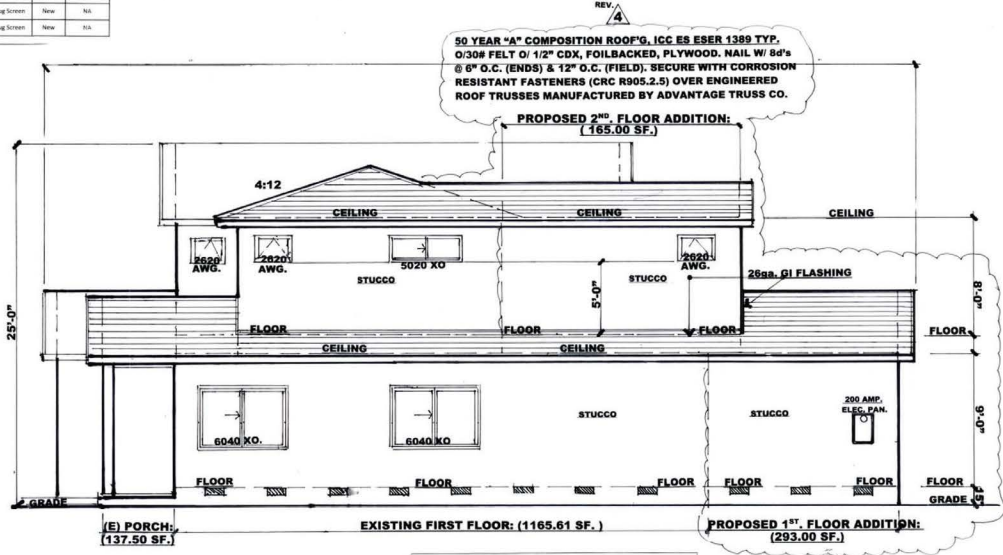
CFR REF: 01-E
 (Page 6 of 13)

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Surface	Orientation	Area (ft ²)	Width (ft)	Height (ft)	Multi	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading	Status	Verified Existing Condition
Window 1	Window	Front Wall	Front	225				1 36.3	0.3	NFRC	0.21	NFRC	Bug Screen	Altered	No
Window 2	Window	Front Wall	Front	225				1 36.3	0.3	NFRC	0.21	NFRC	Bug Screen	Altered	No
Window 3	Window	Front Wall	Front	225				1 36.3	0.3	NFRC	0.21	NFRC	Bug Screen	Altered	No
Entry Door	Window	Front Wall	Front	225				1 35	0.3	NFRC	0.21	NFRC	Bug Screen	Altered	No
Existing Window	Window	Left Wall	Left	315				1 14	0.54	Table 110.6-A	0.65	Table 110.6-B	Bug Screen	Existing	No
Existing Door	Window	Rear Wall	Back	45				1 33.5	0.58	Table 110.6-A	0.65	Table 110.6-B	Bug Screen	Existing	No
Window 4	Window	Rear Wall	Back	45				1 24	0.3	NFRC	0.21	NFRC	Bug Screen	Altered	No
Existing 2	Window	Right Wall	Right	135				1 48	0.54	Table 110.6-A	0.65	Table 110.6-B	Bug Screen	Existing	No
Door	Window	Left Wall 2	Left	315				1 20	0.3	NFRC	0.21	NFRC	Bug Screen	New	N/A
SGD	Window	Rear Wall 2	Back	45				1 40	0.3	NFRC	0.21	NFRC	Bug Screen	New	N/A
Window 5	Window	Rear Wall 2	Back	45				1 20	0.3	NFRC	0.21	NFRC	Bug Screen	New	N/A
Window 6	Window	Front Wall 2	Front	225				1 17.5	0.3	NFRC	0.21	NFRC	Bug Screen	New	N/A
Window 7	Window	Front Wall 2	Front	225				1 24	0.3	NFRC	0.21	NFRC	Bug Screen	New	N/A
Window 8	Window	Front Wall 2	Front	225				1 32	0.3	NFRC	0.21	NFRC	Bug Screen	New	N/A
Window 9	Window	Left Wall 3	Left	315				1 10	0.3	NFRC	0.21	NFRC	Bug Screen	New	N/A
Window 10	Window	Left Wall 3	Left	315				1 14	0.3	NFRC	0.21	NFRC	Bug Screen	New	N/A

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Surface	Orientation	Area (ft ²)	Width (ft)	Height (ft)	Multi	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading	Status	Verified Existing Condition
Window 11	Window	Rear Wall 3	Back	45				1 24	0.3	NFRC	0.21	NFRC	Bug Screen	New	N/A
Window 12	Window	Rear Wall 3	Back	45				1 24	0.3	NFRC	0.21	NFRC	Bug Screen	New	N/A
Window 13	Window	Rear Wall 3	Back	45				1 6	0.3	NFRC	0.21	NFRC	Bug Screen	New	N/A
Window 14	Window	Rear Wall 3	Back	45				1 13.5	0.3	NFRC	0.21	NFRC	Bug Screen	New	N/A
Window 15	Window	Right Wall 3	Right	135				1 10	0.3	NFRC	0.21	NFRC	Bug Screen	New	N/A
Window 16	Window	Right Wall 3	Right	135				1 10	0.3	NFRC	0.21	NFRC	Bug Screen	New	N/A



RIGHT-SIDE ELEVATION
 SCALE - 1/4" = 1' - 0"



LEFT-SIDE ELEVATION
 SCALE - 1/4" = 1' - 0"

REVISIONS	BY
REV A	8-12-24 L.C.

PLAN COMMENTS TO: LOU@COSTANZO.COM
 408-572-8887 CELL
 Lou Costanzo
 A REMODEL FOR 1ST, FLOOR & 2ND, FLOOR ADDITION FOR:
THE SANTOSH SHAH RESIDENCE
 684 MARSHALL CT., SANTA CLARA, CA 95050
 650-953-1111 FAX | 408-572-8887 CELL
 STRUCTURAL ENGINEER: TONY TRUONG, P.E. 408-899-0220

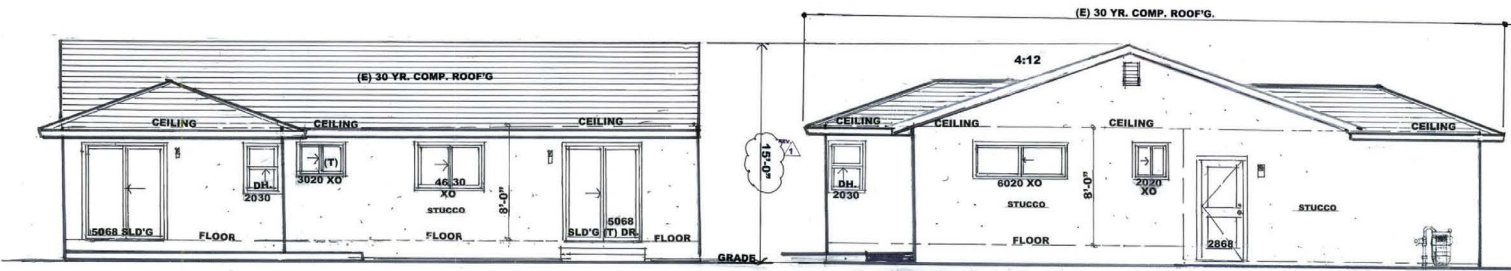
ELEVATIONS

DRAWN BY: LOU COSTANZO
 CHECKED BY: S.C.
 DATE: 8-12-24
 SCALE: 1/4" = 1'-0"
 JOB NO: S2023-8
 SHEET: REV A
A8R
 REVISION

REVISIONS	BY
1	LC
2	LC

PLAN COMMENTS ID:
 L00002400000000
 08/27/2019 CELL
 2-18-23
 10/1/2024

A REMODEL FOR 1ST FLOOR & 2ND FLOOR ADDITION FOR:
THE SANTOSH SHAH RESIDENCE
 684 MARSHALL CT., SANTA CLARA CA. 95050
 PLAN: LOU COSTANZO 1001 SAN GABRIEL WAY, S.J. 95125 408-264-0220
 STRUCTURAL ENGINEER: TONY TRUONG PE. 408 899-0220



REAR ELEVATION
SCALE - 1/4" = 1'-0"

LEFT ELEVATION
SCALE - 1/4" = 1'-0"



FRONT ELEVATION
SCALE - 1/4" = 1'-0"

RIGHT ELEVATION
SCALE - 1/4" = 1'-0"

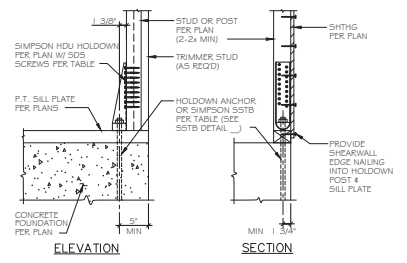
EXISTING ELEVATIONS
SCALE - 1/4" = 1'-0"

EXISTING ELEVATIONS

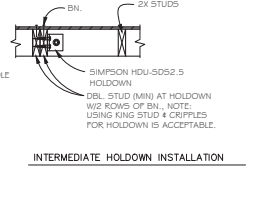
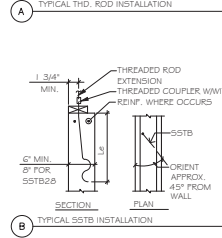
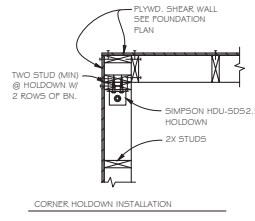
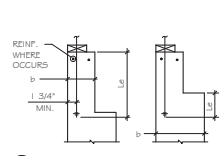
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LOU COSTANZO
 CHECKED
 S.C.
 DATE
 7 - 18 - 23
 SCALE
 1/4" = 1'-0"
 JOB NO.
 S2023-8
 SHEET

A9

OF SHEETS



NOTE:
B.N. = 10# BOUNDARY NAILING @ 6" O.C., TYP.



HOLD-DOWN SIZE	OPTION A: THD. ROD WITH DBL. NUT/WASHER ANCHOR BOLT MIN. EMBED. (d _e) SIZE	MIN. DIA. THD. ROD	MIN. DIA. THD. ROD	MIN. DIA. THD. ROD	MIN. DIA. THD. ROD	REMARKS
HDU2	5/8" DIA. THD. ROD	1/2	1/2	1/2	1/2	FOR INSTALLATION REQUIREMENTS
HDU3	5/8" DIA. THD. ROD	1/2	1/2	1/2	1/2	REFER TO SIMPSON CATALOG FOR ADDL. REQUIREMENTS
HDU4	7/8" DIA. THD. ROD	1/2	1/2	1/2	1/2	

SIMPSON S053 WOOD SCREWS SCHEDULE	WOOD SCREW TYPE	WOOD SCREW DESCRIPTION	No. OF WOOD SCREWS
S051 x 3	1/4" x 3"	1.0	
S052 x 3	1/4" x 3"	1.8	
S053 x 3	1/4" x 3"	2.4	

1 HOLD-ANCHOR BOLT SCHEDULE

CONCRETE NOTES

- CONCRETE STRENGTH: PROVIDE CONCRETE WITH THE FOLLOWING STRENGTHS AT THE LOCATIONS NOTED. MIX DESIGN, SLUMP, AIR ENTRAINMENT, AGGREGATE SIZE, ETC. SHALL BE IN CONFORMANCE WITH THE A.C.I. CODE, LATEST EDITION.

LOCATION	STRENGTH (PSI @ 28 DAYS)
FOUNDATION BUILDING SLABS-ON-GRADE	2500
EXTERIOR WALKWAYS ON GRADE (SEE NOTES WHERE REFERRED) BELOW	2500

 ALL CONCRETE SHALL BE HARD ROCK (150 PCF) AND CONTAIN 4% AIR ENTRAINMENT.
- REINFORCING STEEL: ASTM A615 WITH THE FOLLOWING STRENGTHS:

SIZE	STRENGTH
#3 AND SMALLER	GRADE 40 (fy = 40000#)
#4 AND LARGER	GRADE 60 (fy = 60000#)

 NOTE: EXTERIOR WALKWAYS, WHERE NOT SPECIFICALLY NOTED ON THE FOUNDATION PLAN, SHALL BE 4" THICK, WITH A MINIMUM 4" COMPACTED CLASS II BASE, AND SHALL BE REINFORCED WITH 6#-W/12" S/W/1" WELDED WIRE FABRIC LOCATED AT MID-DEPTH.
- FABRICATE AND PLACE REINFORCEMENT IN ACCORDANCE WITH ACI PUBLICATION SP-66, ACI DETAILING MANUAL - LATEST EDITION.
- PLACE CONCRETE IN COMPLIANCE WITH ACI 318-14. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED.
- CONCRETE COUERS FOR REINFORCEMENT FOR NON-PRESTRESSED, CAST IN PLACE CONCRETE SHALL BE AS FOLLOWS:

CONDITION	COVER
CAST AGAINST EARTH EXPOSED TO WEATHER	3"
#5 AND SMALLER	1 1/2"
#6 AND LARGER	2"
SLAB-ON-GRADE	2"
- EMBEDS: ALL ITEMS TO BE CAST INTO CONCRETE SUCH AS REINFORCING DOWELS, BOLTS, ANCHORS, PINS, SLEEVES, ETC. SHALL BE SECURELY AND ACCURATELY POSITIONED INTO THE FORMS PRIOR TO PLACING THE CONCRETE.
- CONSTRUCTION JOINTS: THE CONTRACTOR SHALL OBTAIN THE ENGINEERS APPROVAL FOR CONCRETE CONSTRUCTION JOINT LOCATIONS. REINFORCING STEEL DETAILING MAY CHANGE AND THE CONTRACTOR MAY BE RESPONSIBLE FOR ADDITIONAL EXPENSES AS A RESULT.

EPOXY NOTES

- ALL REINFORCING DOWELS OR THREADED ROD DOWELS INDICATED IN THE CONSTRUCTION DOCUMENTS TO BE SET INTO HOLES FILLED WITH EPOXY ADHESIVE SHALL BE COVERED BY THE PROVISIONS OF THIS SECTION AS WELL AS THE SPECIFIC INSTALLATION PROVISIONS REQUIRED BY THE PRODUCT MANUFACTURER AND APPLICABLE I.C.B.O. EVALUATION REPORT REQUIREMENTS.
 - SIMPSON SET 90° (ICC ESR # 2508)
- PROVIDE DRILLED HOLES OF DIAMETER AND DEPTH SPECIFIED BY THE PRODUCT MANUFACTURER FOR THE DOWEL SIZE SPECIFIED IN THE CONSTRUCTION DOCUMENTS OR OF DIAMETER AND DEPTH SPECIFIED IN THE CONTRACT DOCUMENTS, WHICHEVER IS GREATER WHEN DEPTH OF EMBEDMENT IS CONSIDERED. PROVIDE CLEAR HOLE OF CONCRETE DUST WITH BRUSH AND OIL-FREE COMPRESSED AIR. INJECT ADHESIVE PER MANUFACTURER'S SPECIFICATION.
- ENCOUNTERING EXISTING REINFORCING DURING DRILLING - CONTRACTOR SHALL NOT DRILL THROUGH REINFORCING IN EXISTING CONCRETE. ADJUST ANGLE OF HOLE OR RELOCATE HOLE +/- 1" AWAY FROM PREVIOUS LOCATION. CONTACT STRUCTURAL ENGINEER WHERE THE AFORESAID REMEDY CANNOT BE UTILIZED.

GENERAL NOTES

- ALL WORK SHALL BE CARRIED OUT BY A CALIFORNIA LICENSED CONTRACTOR(S). ALL CONSTRUCTION PROCEDURES SHALL CONFORM TO CGRA STANDARDS.
- THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISH STRUCTURE. UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL ADVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
- ALL HOLES DRILLED FOR BOLTS SHALL BE 1/16" HIGHER THAN THE BOLT DIAMETER EXCEPT NOTED ON PLANS. THE TIGHTENING OF THE BOLTS SHALL NOT DAMAGE EXISTING OR NEW FRAMING ELEMENTS. ALL BOLTS AND THREADED RODS SHALL HAVE HEAVY NUTS AND WASHERS.
- TYPICAL NOTES AND DETAILS ARE PROVIDED TO COVER GENERAL CONSTRUCTION CONDITIONS. THE GENERAL CONTRACTOR SHALL FOLLOW THESE DETAILS AND NOTES PERTAINING TO THE SPECIFIC NATURE OF THE WORK TO BE PERFORMED.
- NOTES AND DETAILS ON THESE STRUCTURAL DRAWINGS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. DETAILS ARE SHOWN IN DIAGRAMMATIC FORM AND ARE NOT TO BE SCALED SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ELEVATIONS, SLOPES, FINISHES, ETC.). CONSTRUCTION DETAILS NOT SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. ALL WORK OR CONSTRUCTION SHALL COMPLY WITH THE 2022 CGC AND 2021 IBC AND ALL OTHER APPLICABLE REGULATIONS AND SAFETY REQUIREMENTS.
- DISCREPANCIES: THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS WHERE APPLICABLE AT THE JOB SITE AS WELL AS THE PROVISIONS OF THE ENTIRE CONSTRUCTION DOCUMENTS AND BRING TO THE ARCHITECT'S/ENGINEER'S ATTENTION ANY DISCREPANCY. IN THE EVENT OF A DISCREPANCY IN THE CONTRACT DOCUMENTS, THE NOTE OR DETAIL UTILIZING THE STRICTER REQUIREMENT SHALL APPLY.
- EXCAVATION, SHORING, AND BRACING: IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, FORM WORK, ETC., AS REQUIRED FOR PROTECTION, TO SUPPORT ALL CONSTRUCTION LOADS, AND TO MAINTAIN ALL BUILDING COMPONENTS SAFELY IN PLACE PRIOR TO THEIR FINAL ASSEMBLY AND ANCHORAGE INTO THE COMPLETED STRUCTURE.
- INSPECTIONS: ALL INSPECTION AND TESTING SHALL BE PERFORMED ACCORDING TO BUILDING CODE AND/OR LOCAL BUILDING DEPARTMENT REQUIREMENTS.
- COORDINATION - REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND ALL OTHER PERTINENT DRAWINGS FOR THE SIZE AND LOCATION OF FIRE, VENT, DUCT AND OTHER OPENINGS AND DETAILS NOT SHOWN ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.
- TRUSS BRACING: THE GENERAL CONTRACTOR SHALL VERIFY THE EXISTING TRUSS BRACING WITH THE TRUSS MANUFACTURER.

TIMBER NOTES

- UMBER SCHEDULE: (UNLESS OTHERWISE NOTED ON FRAMING PLANS)

USE	SIZE / TYPE	SPECIES	GRADE
LIGHT FRAMING	2'-4" THICK 2'-6" WIDE	DF	NO.2
ROOF JOIST/CEILING JOIST	2'-4" THICK 5' AND WIDER	DF	NO.2
BEAM/POST	ANY	DF	NO.1
SILL	ANY	DF	PRETS. TRTD. #2
FSL BEAM	2.2 E (ICC ESR # 1387)	TRUSS JOIST MAXIMUM	
HARDY FRAME	ICC # ESR 2089		
- PLYWOOD SHEATHING - IN COMPLIANCE WITH U.S. PRODUCT STANDARD PS1, LATEST EDITION.
 - OSB SHEATHING: UPON APPROVAL OF THE STRUCTURAL ENGINEER OSB SHEATHING MAY BE SUBSTITUTED FOR PLYWOOD SHEATHING PROVIDED THE OSB SHEATHING CONFORMS TO NATIONAL EVALUATION REPORT NER Q4874 AND AMERICAN PLYWOOD ASSOCIATION PERFORMANCE RATING STANDARD NER 1.08.
- NOTHING, BORING, AND CUTTING OF WOOD MEMBERS SHALL NOT BE ALLOWED EXCEPT AS PROVIDED FOR IN THE 2022 CALIFORNIA BUILDING CODE OR APPROVED BY THE STRUCTURAL ENGINEER.
- NAILS - COMMON TYPE WITH SIZE AND SPACING IN COMPLIANCE WITH 2022 CALIFORNIA BUILDING CODE TABLE 2304.10.1, OR AS SPECIFIED ON THE DRAWINGS, WHICHEVER SPECIFICATION IS STRICTER. NAILS SHALL NOT PENETRATE FACE OF PLYWOOD SHEETS MORE THAN 1/8" WITH THE SURFACE. PLYWOOD SHEETS SHALL BE REPLACED WHERE NAILS HAVE PENETRATED THE FACE OF THE PLYWOOD. NAILS SHALL BE FULL ROUND-HEAD NAILS (CLIPPED HEAD NAILS, T-NAILS, ETC. SHALL NOT BE ALLOWED).
- MACHINE BOLTS - ASTM A307 QUALITY INSTALLED THROUGH HOLES 1/16" LARGER THAN SIZE OF BOLT. USE STANDARD CUT WASHERS UNDER HEAD AND NUT UNLESS OTHERWISE NOTED. COUNTERSINK WHERE SPECIFIED NOT MORE THAN THICKNESS OF HEAD AND WASHER. RETIGHTEN PRIOR TO ENCLOSING.
- LAG SCREWS - INSTALLATION SAME AS FOR MACHINE BOLTS BUT WITH HOLE DIAMETER 3/8" DIAMETER OF SCREW ROOT. LEAD HOLES SHALL BE UTILIZED EQUAL TO LENGTH AND DIAMETER OF SMOOTH PORTION OF SHANK WHERE SPLITTING IS ANTICIPATED.
- SHAKE-RESISTANT FASTENERS - IF AS INDICATED ON DRAWINGS BY SIMPSON COMPANY (OR EQUIVALENT) UTILIZING ALL SPECIFIED NAILS OR BOLTS. REFER TO MANUFACTURER'S SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS WHERE NOT SHOWN OR NOTED.

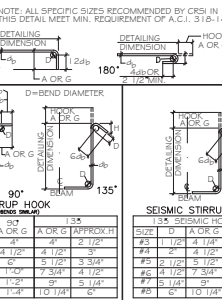
STRUCTURAL DESIGN CRITERIA

- DESIGN LOADS AND REQUIREMENTS: 2022 CBC, 2023 IRC, 2021 IBC, ASCE 7-16
- REQUIRED INSPECTIONS BY STRUCTURAL ENGINEER
 - CONCRETE FOOTINGS & STRUCTURAL EMBEDS: ALL REINFORCEMENT AND STRUCTURAL EMBEDS TO BE INSPECTED AND INSPECTED PRIOR TO PLACING CONCRETE.
 - ROUGH STRUCTURAL FRAMING: ALL STRUCTURAL FRAMING MEMBERS AND STRUCTURAL HARDWARE TO BE IN PLACE AND INSPECTED PRIOR TO CONCRETE.
 - ROOF AND WALL PLYWOOD: ALL PLYWOOD EDGE AND FIELD NAILING TO BE IN PLACE AND INSPECTED PRIOR TO CONCRETE.
 - STRUCTURAL OBSERVATION FOR SHEAR-WALL NAILING OF 4 INCHES OR LESS

STRUCTURAL DESIGN CRITERIA

- DESIGN LOADS AND REQUIREMENTS: 2022 CBC, 2023 IRC, 2021 IBC, ASCE 7-16
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 - STRUCTURAL OBSERVATION FOR SHEAR-WALL NAILING OF 4 INCHES OR LESS

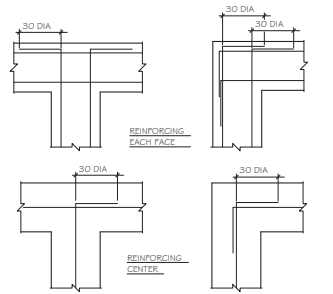
NOTE: PERIODIC INSPECTIONS ARE REQUIRED



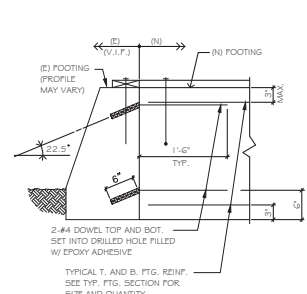
BAR SIZES	D=FINISHED INSIDE BEND DIAMETER	STANDARD HOOKS	STIRRUP/HOOKS
#3 #4 #5	6#	4#	
#6 #7 #8	6#	4#	
#9 #10 #11	6#	4#	
#14 #18	10#	10#	

BAR SIZE	D	A OR G	D	A OR G	D
#3	5"	3"	2 1/4"	6"	2 1/4"
#4	6"	4"	3"	6"	3"
#5	7"	5"	3 3/4"	10"	3 3/4"
#6	8"	6"	4 1/2"	10"	4 1/2"
#7	10"	7"	5 1/4"	12"	5 1/4"
#8	11"	8"	6"	14"	6"
#9	13"	11 3/4"	9 1/2"	17"	9 1/2"
#10	15"	14 1/4"	10 3/4"	17 1/2"	10 3/4"
#11	17"	16 3/4"	12"	20"	12"
#14	20 3/4"	19 3/4"	18 1/4"	27 1/2"	18 1/4"
#18	30"	24 1/2"	24"	35"	24"

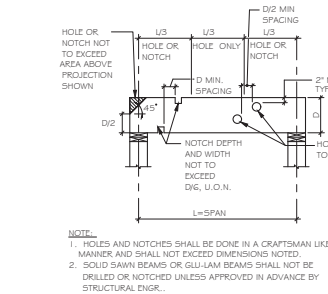
2 TYP. CONC. REBAR SPLICES



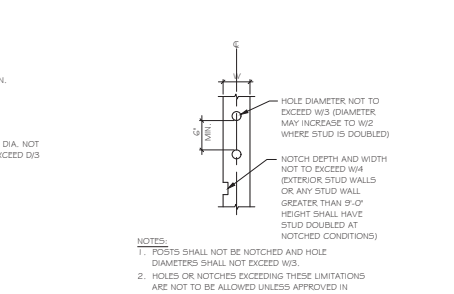
3 STANDARD REBAR HOOKS



6 JOIST NOTCHING OR DRILLING (SOLID SAWN LUMBER)



7 STUD NOTCHING OR DRILLING



4 CONCRETE FTG. INTERSECTION

5 TYPICAL FOOTING SPLICE

7 STUD NOTCHING OR DRILLING

REVISIONS

By	Rev

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A REMODEL 1st AND 2nd FLOOR ADDITIONS:
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SANTA CLARA, CA 95051

STRUCTURAL NOTES AND DETAILS

Date: 8-27-24
Scale: AS NOTED
Engineer: T.T.
Reviewed: P.S.
Job: S-2024-24
Sheet: 50 of 50

NOTES:

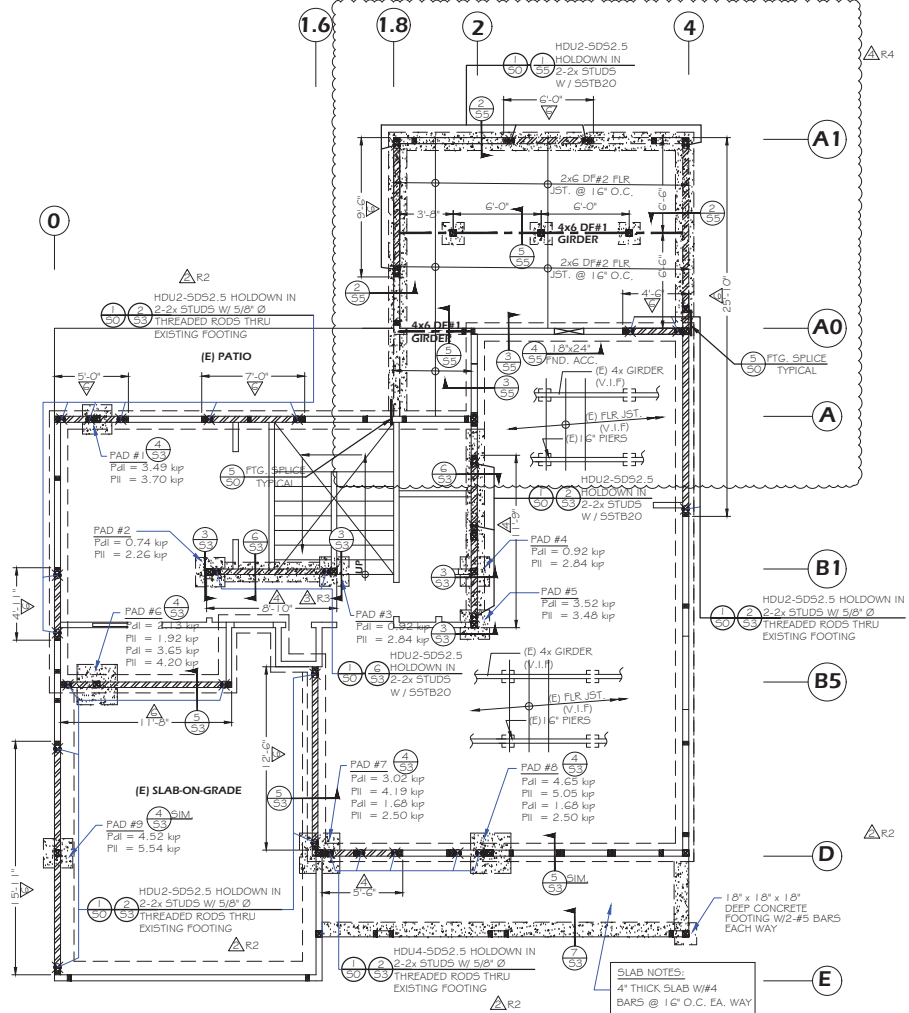
- THE NEW FOUNDATION AT THE NEW ADDITIONS ARE DESIGN PER CRC-2022 MINIMUM (1,500 PSF) (CRC TABLE R401.4.1) ALLOWABLE BEARING. THE NEW FOUNDATIONS ARE DESIGN WITHOUT A SOIL REPORT, HOWEVER, IF THE CITY REQUIRED A SOIL REPORT FOR THIS PROJECT. THE OWNER SHALL PROVIDE ONE. IN THE FUTURE IF THERE ARE ANY SETTLEMENTS AND CRACKS TO THE NEW FOUNDATIONS LOCATION. THE ENGINEER OF RECORD AND TRUONG DESIGN SHALL NOT TAKE ANY RESPONSIBILITY FOR THESE RESULT.

NOTES:

- CONTRACTOR SHALL VERIFY EXISTING FOUNDATIONS IS CONVENTIONAL AND NOT A PIER AND GRADE BEAM FOUNDATION. CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER IF EXISTING FOUNDATION IS PIER AND GRADE BEAM PRIOR TO CONSTRUCTION.
- ALL FRAMING MEMBERS AND CONNECTORS EXPOSED TO WEATHER CONDITIONS SHALL BE PRESURE TREATED AND HOT DIPPED GALVANIZED FOR CONNECTORS.
- ALL ANCHOR EDGE DISTANCE FROM CONCRETE EDGE SHALL BE 2 INCHES MINIMUM (UNLESS NOTIFY OTHERWISE), TYPICAL.

SHEARWALL SCHEDULE (BLOCK ALL PANEL EDGES)					
WALL SYMBOL	PLYWOOD THICKNESS	NAILING		ANCHOR BOLTS (AB's) IN 2x PLATE W/ 3"x3" 1/4" RL WASHER	ANCHOR BOLTS (AB's) IN 3x PLATE W/ 3"x3" 1/4" RL WASHER
		BOUNDARIES (B.N) PANEL EDGES (P.E.N.)	INTERMEDIATE		
△	1/2" (MIN)	8d @ 6" O.C.	8d @ 12" O.C.	16d @ 6" O.C.	5/8" @ 48"
△	1/2" (MIN)	10d @ 4" O.C.	10d @ 12" O.C.	SDS 1/4" x 6" SIMPSON LAG SCREWS @ 8" O.C IN 3x BUKGS (MIN.)	5/8" @ 32"
△	1/2" (MIN)	2-ROWS OF 10d @ 3" O.C. IN 4x4 STUD	10d @ 12" O.C. IN 4x4 STUD	2-ROWS OF SDS 1/4" x 6" SIMPSON LAG SCREWS @ 4" O.C IN 4x BUKGS	5/8" @ 24"

NOTE: A MINIMUM OF TWO SILL ANCHORS ARE TO BE PROVIDED PER PLATE, AND THAT THEY ARE TO BE LOCATED NOT MORE THAN 12-INCHES OR LESS THAN SEVEN BOLT DIAMETERS FROM THE ENDS AS REQUIRED BY (CRC R403.1.6.)



PADS DIMENSION:

- PAD #2, #3, #4**
2'-0" x 2'-0" x 18" DEEP
PAD W/ 3-#5 EACH WAY
- PAD #1, #5**
2'-6" x 2'-6" x 18" DEEP
PAD W/ 4-#5 EACH WAY
- PAD #6, #7, #9**
3'-3" x 3'-3" x 18" DEEP
PAD W/ 5-#5 EACH WAY
- PAD #8**
3'-6" x 3'-6" x 18" DEEP
PAD W/ 5-#5 EACH WAY

EPOXY TIE ADHESIVE SYSTEM
SIMPSON SET XP® (ICC ESR # 2508)

SPECIAL INSPECTION
SPECIAL INSPECTION OF RETROFIT HOLDOWNS BOLTS TO BE PERFORMED BY PROJECT DESIGN/STRUCTURAL ENGINEER. LETTER VERIFYING INSPECTION TO BE ON SITE FOR CITY FIELD INSPECTOR AT TIME OF SHEAR WALL INSPECTION.

NOTES:

- CONTINUOUS SPREAD FOOTINGS - CONTRACTOR SHALL OVEREXCAVATION A MINIMUM OF TWELVE INCHES BELOW THE BOTTOM OF THE NEW SPREAD FOOTINGS AND REPLACEMENT WITH NON-EXPENSIVE ENGINEERED FILL OR LEAN CONCRETE. (SEE SOIL REPORT)
- SURFACE DRAINAGE - ADJACENT TO ANY BUILDINGS, THE GROUND SURFACE SHOULD SLOPE AT LEAST 4 PERCENT AWAY FROM THE FOUNDATIONS WITHIN 5 FEET OF THE PERIMETER. IMPERVIOUS SURFACES SHOULD HAVE A MINIMUM GRADIENT OF 2 PERCENT AWAY FROM THE FOUNDATION. (SEE SOIL REPORT)
- SURFACE WATER SHOULD BE DIRECTED AWAY FROM ALL BUILDINGS INTO DRAINAGE SWALES, OR INTO A SURFACE DRAINAGE SYSTEM (I.E. CATCH BASINS AND SLOD DRAIN LINE). TRAPPED PLANTING AREAS SHOULD NOT BE CREATED NEXT TO ANY BUILDINGS WITHOUT PROVIDING MEANS FOR DRAINAGE. (SEE SOIL REPORT)
- ALL ROOF EAVES SHOULD BE LINED WITH GUTTERS. THE DOWNSPOUTS SHOULD BE CONNECTED TO SOLID DRAIN LINES, OR SHOULD DISCHARGE ONTO PAVED SURFACES WHICH DRAIN AWAY FROM THE STRUCTURE. THE DOWNSPOUTS MAY BE CONNECTED TO THE SAME DRAIN LINE AS ANY CATCH BASINS, BUT SHOULD NOT CONNECT TO ANY PERFORATED PIPE DRAINAGE SYSTEM. (SEE SOIL REPORT)

FOUNDATION / FIRST FLOOR PLAN NOTES

- CONFIRM ALL DIMENSIONS AND ELEVATIONS WITH THE LATEST ARCHITECTURAL DRAWINGS. ALERT THE ARCHITECT OF ANY DISCREPANCY. DO NOT SCALE THE STRUCTURAL DRAWINGS.
- REFER TO STRUCTURAL NOTES ON SHEET 50.
- FOR TYPICAL CONCRETE REBAR SPACES REFER TO DETAIL 2/50.
- FOR TYPICAL REINFORCING AT FOUNDATION INTERSECTION, REFER TO DETAIL 5/50.
- FOR STANDARD REBAR HOOKS, REFER TO DETAIL 3/50.
- FOR TYPICAL FOOTING SPlice, REFER TO DETAIL 5/50.
- FOR PIER THROUGH FOOTING, REFER TO DETAIL 1/53.
- NONE
- FOR STUD AND JOIST DRILLING OR NOTCHING, REFER TO DETAILS 6 AND 7/50.
- FOR TYPICAL FLOOR OPENING, REFER TO DETAIL 7/54.
- FOR SHEAR WALL PLYWOOD, REFER TO DETAIL 4/54.
- FOR FLOOR PLYWOOD, REFER TO DETAIL 5/54.
- SHEATH ALL EXTERIOR WALLS WITH 1/2" CDX EXPOSURE 1, A.P.A. RATED PLYWOOD WITH 8d @ 6" O.C. (EDGE, P.E.N.) 12" O.C. FIELD. ALL EDGES ARE TO BE NAILED TO 2x BLOCKING MINIMUM. PROVIDE PLYWOOD EDGE NAILING (P.E.N.) TO ALL POSTS, DOUBLE TOP PLATES, BOTTOM SOLE PLATES, MUD SILLS, EDGE JOISTS, JOIST END BLOCKS, AND OTHER LOCATIONS NOTED IN THE DRAWINGS.
- SHEATH FLOOR WITH 3/4" T&G A.P.A. RATED 'STURD-I-FLOOR'; EXPOSURE 1 PLYWOOD WITH FACE GRAIN PERPENDICULAR TO JOISTS WITH ADHESIVE TO BEARING SURFACES AND TAG JOINTS WITH No. 8 x 2" GRABBER WOOD SCREW AT 6" O.C. (EDGES, P.E.N.), 10" O.C. (FIELD), STAGGER END SPLICES.
- ALL POSTS SHOWN ☒ AND KING POSTS SHOWN ☐ SHALL BE 4x STUD WALL THICKNESS, U.O.N. G.A.D. FOR STUD WALL THICKNESS). TYPICAL POST TO BEAM CONNECTIONS SHALL BE EPCS @ ENDS & PCS @ INTERIOR SUPPORTS, U.O.N. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE CORRECT POST CAP SIZE. PLYWOOD SHALL BE USED WHERE SHIMMING IS REQUIRED.

LEGEND

	INDICATE SHEAR-WALLS
	INDICATE NEW FOUNDATION
	INDICATE EXISTING FOUNDATION
	HDU4-SDS2.5 HOLD DOWN 2-2x STUD OR 4x POST

DESIGN CRITERIA:

- SCOPE:** A REMODEL AND ADDITION OF 1st AND 2nd STORY
ROOF DL = 14.5 psf; ROOF LL = 20.0 psf; EXTERIOR WALL DL = 16.0 psf
FLOOR DL = 12.0 psf; FLOOR LL = 40.0 psf; INTERIOR WALL DL = 6.0 psf
MINIMUM ALLOWABLE BEARING: 1,500 psf. (CRC TABLE 401.A.1)

SEISMIC DESIGN:

Risk Category:	II
Seismic importance factor:	ie = 1
Mapped spectral response acceleration parameters:	S _s = 1,500 g, 0.2 sec. S ₁ = 0.600 g, 1.0 sec.
Design spectral response acceleration parameters:	S _{ds} = 1,200, S _{d1} = 0.680
Maximum considered Earthquake Acceleration:	S _{ms} = 1,500, S _{m1} = 1.020
Seismic design category:	D
Site Class:	D
Basic seismic force resisting system:	Bearing Wall Systems (light framed walls sheathed w/plywood)
Design base shear:	9.86 kips @ R3
Seismic response coefficient:	C _s = 0.1846
Response modification coefficient:	R = 6.5
Analysis Procedure used:	Equivalent Lateral Force Procedure

WIND DESIGN:

Wind Speed:	95 mph
Risk category:	II
Wind Exposure:	B
Horizontal pressure:	24.1 psf (max)

FOUNDATION & FIRST FLOOR SHEAR-WALLS & HOLDOWN PLANS
SCALE: 1/4" = 1'-0"

Revisions

△ 3-20-24	T.T.
△ 4-03-24	T.T.
△ 8-27-24	T.T.

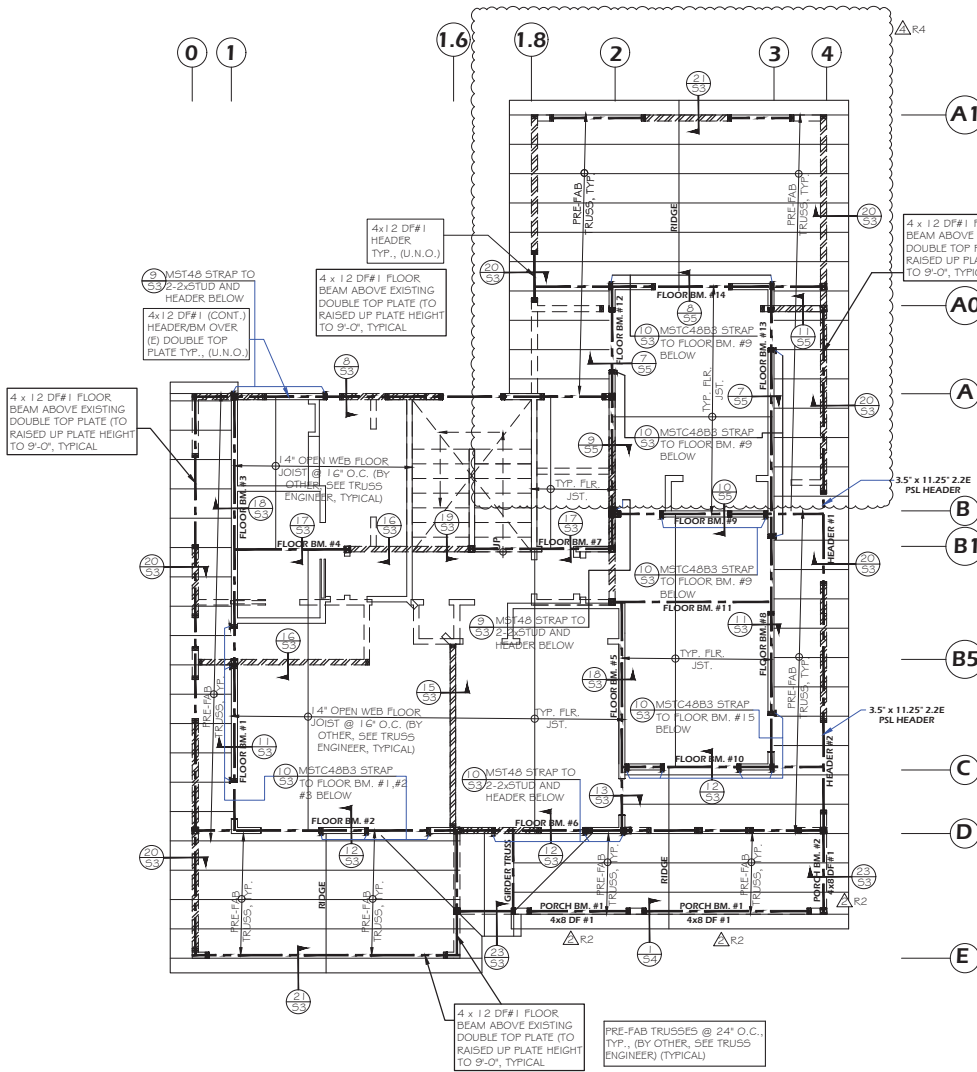
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ENGINEER'S SIGNATURE

FOUNDATION & FIRST FLOOR SHEAR-WALLS & HOLDOWN PLANS

A REMODEL 1st AND 2nd FLOOR ADDITIONS;
SANTOSH SHAH RESIDENCE
648 MASHALL COURT
SANTA CLARA, CA 95051

Date: 8-27-24
Scale: AS NOTED
Engineer: T.T.
Reviewed: P.S.
Job: S-2024-24
Sheet: **S1**
of Sheets



SECOND FLOOR & LOWER ROOF FRAMING PLANS AND TIE-DOWN

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

BEAMS SCHEDULE: (NOTE: CONTRACTOR SHALL VERIFY ALL ACTUAL SPAN OF FLOOR, RIDGE AND CEILING BEAMS)

DESCRIPTION	SPAN	BEAM SIZE	HANGER (FACE MOUNT)	MAX. LOAD (lbs.)	BEAM TO COLUMN (CONN.)	BEAM SUPPORT
FLOOR BEAM #1	11'-6"	5.25" x 14.0' 2.2E PSL BM.	HGU55.50/1/2	9600	EPC25 AND FACE MOUNT HANGER	4x6 DF#1 POST
FLOOR BEAM #2	10'-3"	5.25" x 14.0' 2.2E PSL BM.	HGU55.50/1/2	9600	EPC25 AND FACE MOUNT HANGER	4x6 DF#1 POST
FLOOR BEAM #3	10'-0"	5.25" x 14.0' 2.2E PSL BM.	-	-	EPC25 AND PC25 POST CAP	4x6 DF#1 POST
FLOOR BEAM #4	7'-8"	3.5" x 14.0' 2.2E PSL BM.	HGU541/2	-	EPC25 AND FACE MOUNT HANGER	4x6 DF#1 POST
FLOOR BEAM #5	15'-7"	5.25" x 14.0' 2.2E PSL BM.	HGU55.50/1/2	-	EPC25 AND FACE MOUNT HANGER	4x6 DF#1 POST
FLOOR BEAM #6	11'-8"	3.5" x 14.0' 2.2E PSL BM.	-	-	EPC25 AND PC25 POST CAP	4x6 DF#1 POST
FLOOR BEAM #7	9'-7"	3.5" x 14.0' 2.2E PSL BM.	-	-	EPC25 AND PC25 POST CAP	4x6 DF#1 POST
FLOOR BEAM #8	17'-3"	3.5" x 14.0' 2.2E PSL BM.	HGU541/2	-	FACE MOUNT HANGER	FLOOR BEAMS
FLOOR BEAM #9	14'-10"	5.25" x 14.0' 2.2E PSL BM.	'BC' TO HEADER	-	EPC25 AND 'BC' TO HEADER	4x6 DF#1 POST
FLOOR BEAM #10	13'-9"	3.5" x 14.0' 2.2E PSL BM.	'BC' AND HGU541/2	-	FACE MOUNT AND 'BC' TO HEADER	FLOOR BEAM
FLOOR BEAM #11	11'-0"	3.5" x 14.0' 2.2E PSL BM.	HGU541/2	-	EPC25 AND FACE MOUNT HANGER	4x6 DF#1 POST
FLOOR BEAM #12	7'-6"	3.5" x 14.0' 2.2E PSL BM.	HGU541/2	-	EPC25 AND FACE MOUNT HANGER	4x6 DF#1 POST
FLOOR BEAM #13	15'-6"	3.5" x 14.0' 2.2E PSL BM.	HGU541/2	-	FACE MOUNT HANGER	FLOOR BEAM
FLOOR BEAM #14	20'-0"	5.25" x 14.0' 2.2E PSL BM.	'BC' AND HGU541/2	-	FACE MOUNT AND 'BC' TO HEADER	4x6 DF#1 POST

LEGEND

INDICATE SHEAR WALLS

INDICATE HARDY FRAME

- NOTES:**
1. OPEN WEB FLOOR JOIST @ 16' O.C. (BY OTHER, SEE TRUSS ENGINEER, TYPICAL)
 - ALL NEW PARALLEL AND PERPENDICULAR PARTITION WALLS.

SECOND FLOOR FRAMING PLANS NOTES

1. CONFIRM ALL DIMENSIONS AND ELEVATIONS WITH THE LATEST ARCHITECTURAL DRAWINGS. ALERT THE ARCHITECT OF ANY DISCREPANCY. DO NOT SCALE THE STRUCTURAL DRAWINGS.
2. REFER TO STRUCTURAL NOTES ON SHEET 50.
3. FOR STUD AND JOIST DRILLING OR NOTCHING, REFER TO DETAILS 6 AND 7/50.
4. FOR DOUBLE TOP PLATE SPLICE, REFER TO DETAIL 9/54.
5. FOR TYPICAL WALL FRAMED OPENINGS, REFER TO DETAIL 8/54.
6. FOR TYPICAL ROOF/FLOOR OPENING, REFER TO DETAIL 6 AND 7/54.
7. FOR SHEAR WALL PLYWOOD, REFER TO DETAIL 4/54.
8. FOR ROOF/FLOOR PLYWOOD, REFER TO DETAIL 5/54.
9. SHEATH NEW ROOF WITH 1/2" CDX EXPOSURE 1, A.P.A. RATED PLYWOOD WITH FACE GRAIN PERPENDICULAR TO RAFTERS WITH 8d AT 6" O.C. (EDGES, P.E.N.) 12" O.C. (FIELD). STAGGER SHEET END SPLICES. (ROOF PLYWOOD MAY BE APPLIED DIRECTLY OVER (D) ROOF 5HTG.)
10. SHEATH ALL EXTERIOR WALLS WITH 1/2" CDX EXPOSURE 1, A.P.A. RATED PLYWOOD WITH 8d AT 6" O.C. (EDGE, P.E.N.) 12" O.C. (FIELD). ALL EDGES ARE TO BE NAILED TO 2x BLOCKING MINIMUM. PROVIDE PLYWOOD EDGE NAILING (P.E.N.) TO ALL POSTS, DOUBLE TOP PLATES, BOTTOM SOLE PLATES, MUD SILLS, EDGE JOISTS, JOIST END BLOCKS, AND OTHER LOCATIONS NOTED IN THE DRAWINGS.
11. SHEATH FLOOR WITH 3/4" T&G A.P.A. RATED 'STURD-I-FLOOR', EXPOSURE 1 PLYWOOD WITH FACE GRAIN PERPENDICULAR TO JOISTS WITH ADHESIVE TO BEARING SURFACES AND T&G JOINTS WITH No. 8 x 3" WOOD SCREW GRABBER AT 6" O.C. (EDGES, P.E.N.), 10" O.C. (FIELD). STAGGER END SPLICES.
12. ALL POSTS SHOWN AND KING POSTS SHOWN SHALL BE 4x STUD WALL THICKNESS, U.O.N. (S.A.D. FOR STUD WALL THICKNESS). TYPICAL POST TO BEAM CONNECTIONS SHALL BE EPC25 @ ENDS & PCS @ INTERIOR SUPPORTS, U.O.N. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE CORRECT POST CAP SIZE. PLYWOOD SHALL BE USED WHERE SHIMMING IS REQUIRED.

Revisions By

3-20-24	T.T.
8-27-24	T.T.

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ENGINEER'S SIGNATURE

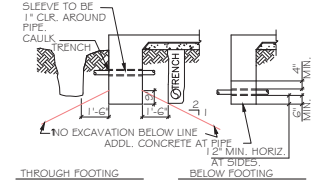
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SECOND FLOOR & LOWER ROOF FRAMING PLAN AND TIE-DOWN

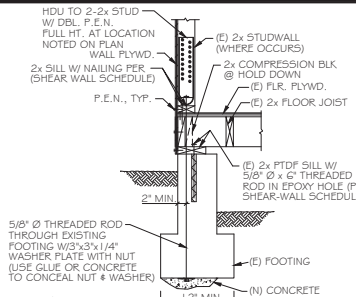
Date: 8-27-24
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 Sheet: **S2**
 of Sheets

NOTES:

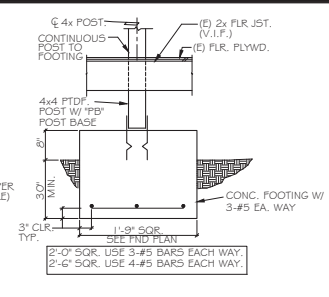
1. DEPTHS OF FTGS. MAY BE DETERMINED BY LOCATION OF PIPE. GEN. CONTRACTOR SHALL CONSULT WITH MECH. CONTRACTOR TO DETERMINE EXACT DEPTH AND LOCATION OF PIPES.
2. WHERE PIPES CROSS UNDER AND ARE NOT MORE THAN 3 FEET BELOW THE NORMAL BOTTOM OF FTG., EXCAVATION SHALL BE AS SHOWN BELOW FILLED WITH MASS CONCRETE.
3. WHERE PIPES CROSS UNDER AND ARE MORE THAN 3 FEET BELOW, THE FTG. SHALL BE STEPPED.



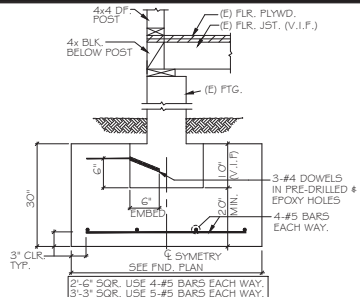
1 PIPE CLEARANCES @ FTG.



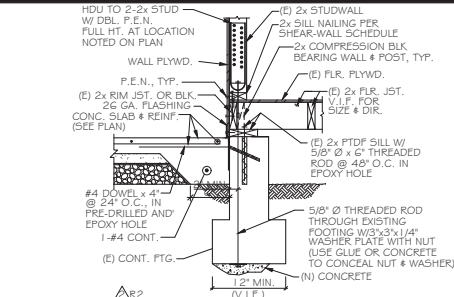
2 SECTION AT RETROFIT HOLDDOWN



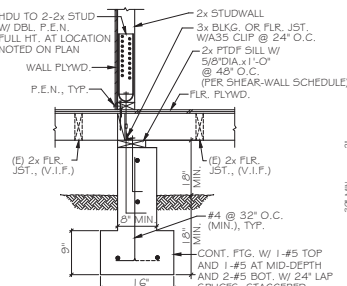
3 RETROFIT INTERIOR ISOLATED FOOTING



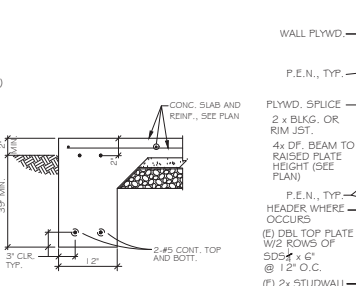
4 SECTION AT NEW/EXISTING FTG.



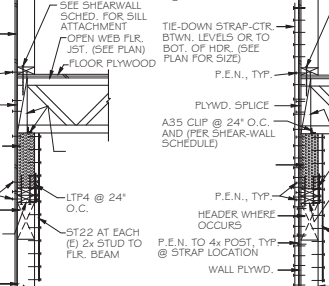
5 FOOTING SECTION AT HOUSE & GARAGE



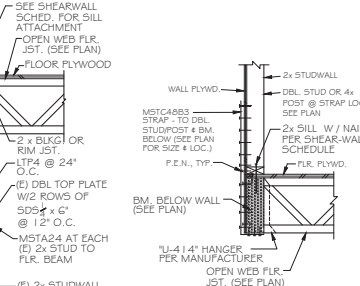
6 TYP. INTERIOR FOOTING AT SHEAR WALL



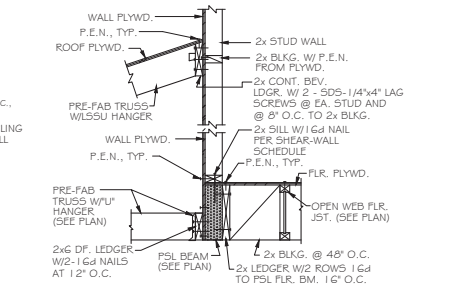
7 TYPICAL PERIMETER FTG. AT PORCH



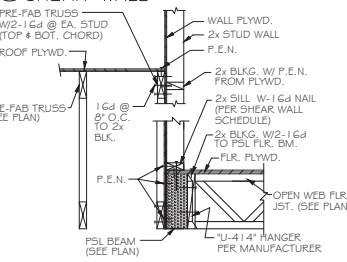
8 SECTION AT FLR. BM IN WALL



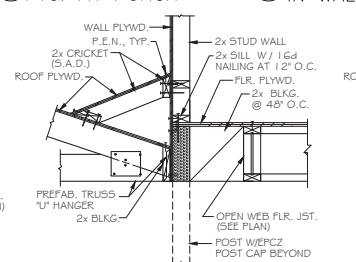
9 WALL TIE-DOWN BTWN. FLOORS



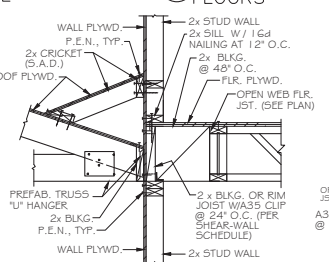
11 FLOOR SECTION AT LOWER ROOF



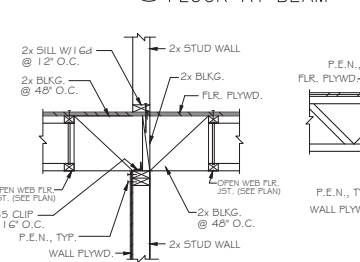
12 FLOOR SECTION AT LOWER ROOF



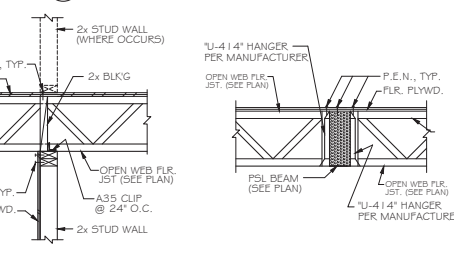
13 LOWER ROOF SECTION AT FLOOR BEAM



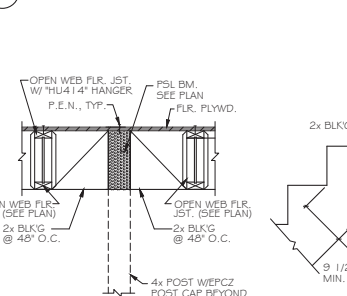
14 SHEAR - TRANSFER SECTION



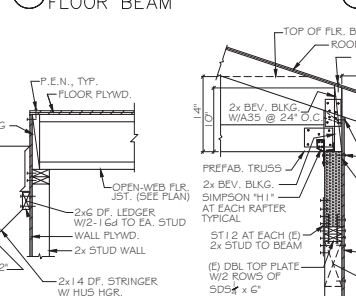
15 SECTION AT INTERIOR SHEAR WALL



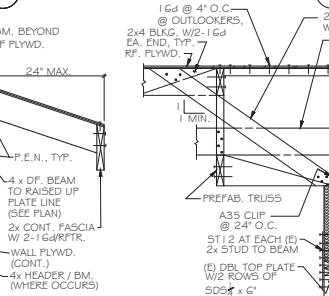
16 SECTION AT INTERIOR SHEAR WALL



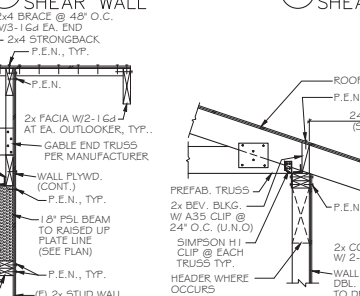
18 FLOOR BEAM SECTION



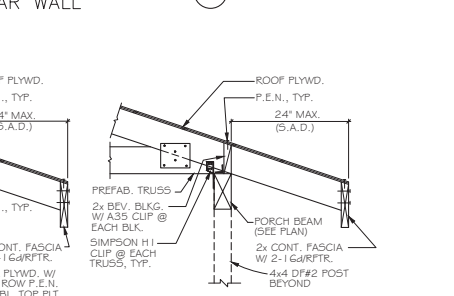
19 STAIR SECTION



20 TYPICAL ROOF EDGE @ RAISED PLATE LINE



21 ROOF/RAKE WALL SECTION



22 TYPICAL ROOF EDGE SECTION @ TRUSS

Revisions	By
3-20-24	T.T

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ENGINEER'S SIGNATURE

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STRUCTURAL DETAILS

A REMODEL 1st AND 2nd FLOOR ADDITIONS:

Date: 8-27-24
Scale: AS NOTED
Engineer: T.T.
Reviewed: P.S.
Job: S-2024-24
Sheet: 53 of 56

