

- (a) Not closer than 30 inches to any property line;
- (b) Six feet or less in height; and
- (c) Constructed and/or insulated so that audibility beyond the property line is limited to the maximum extent feasible.

**PROJECT IS IN THE
WILDLAND URBAN INTERFACE
FIRE ZONE**

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FARRELL-FABER
& ASSOCIATES INC.

MIGUEL ESCUTIA
3119 PAXTON PLACE
SANTA ROSA, CALIFORNIA

■ 乙

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DESIGN FOR
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SANTA ROSA, CA

* SPRINKLER DESIGNS AND CALCULATIONS

YOUNG ENGINEERING SERVICES
132 BOAS DRIVE
SANTA ROSA, CA 95409
(707) 538-7503

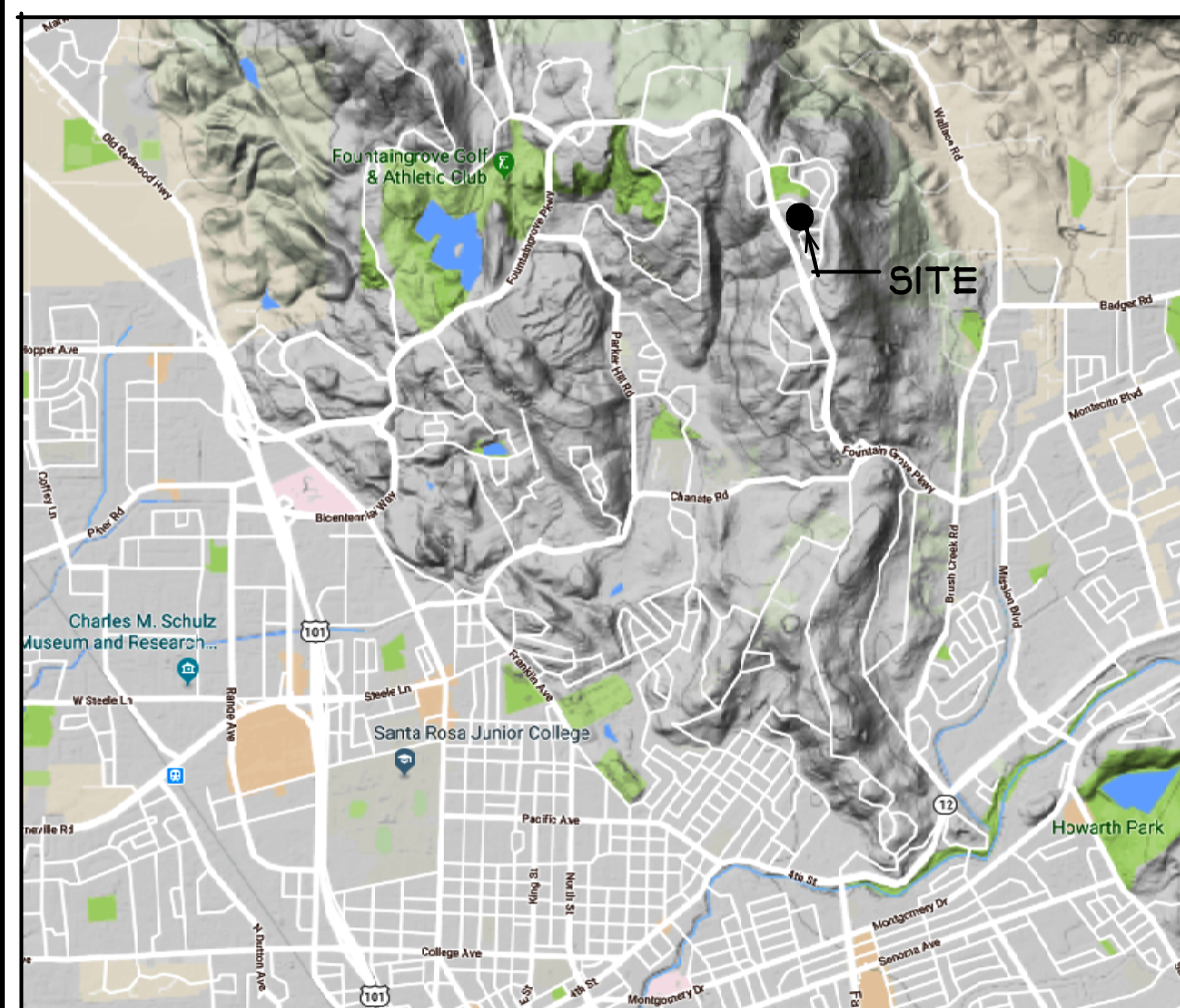
SI.1	FOUNDATION PLAN
SI.2	UPPER FLOOR FRAMING PLAN
SI.3	ROOF FRAMING PLAN
SI	STANDARD STRUCTURAL DET
S2	STRUCTURAL DETAILS
S3	STRUCTURAL DETAILS
S4	STRUCTURAL DETAILS

C1.0 SITE PLAN

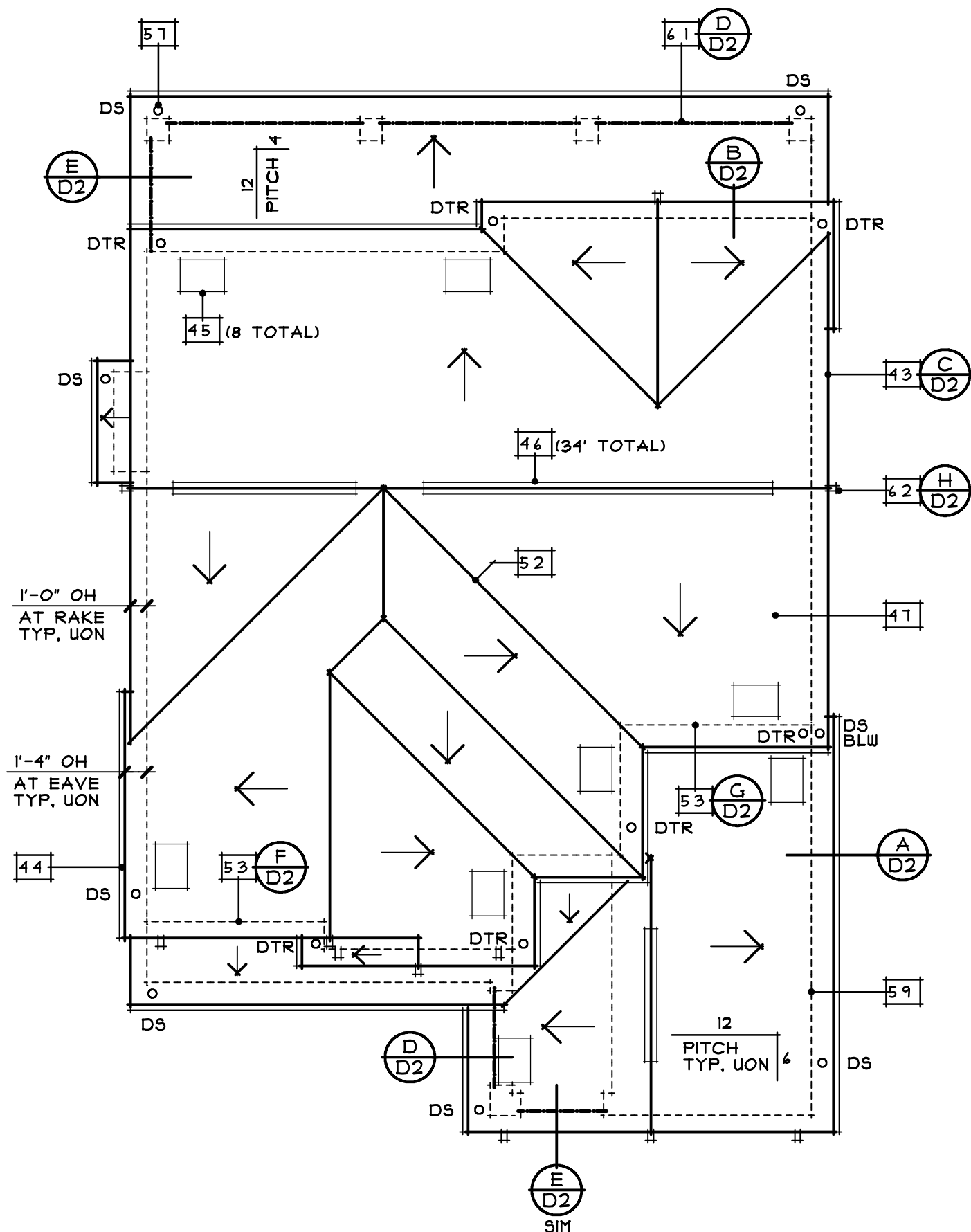
NORTH



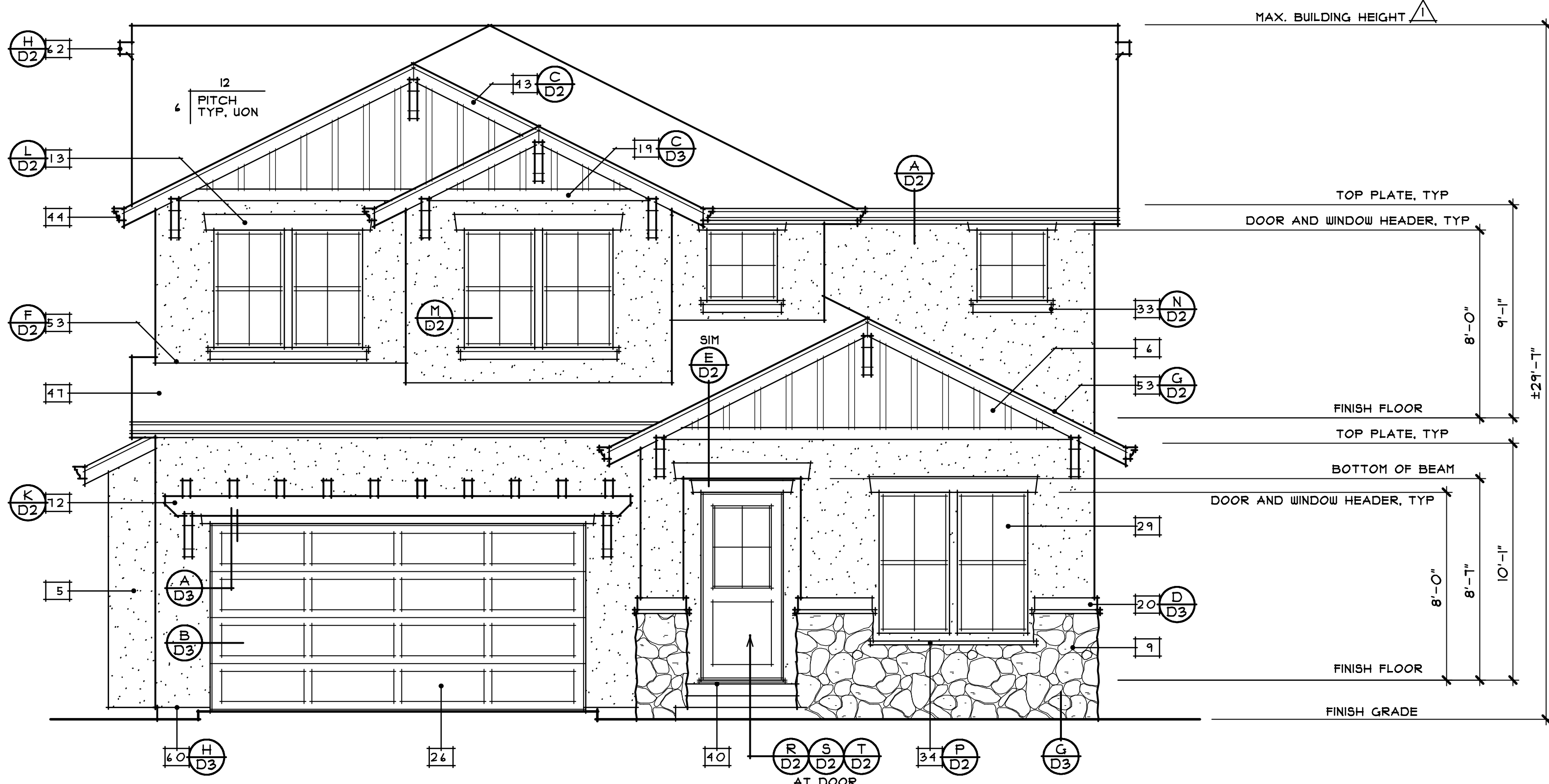
VICINITY MAP



SANTA ROSA, CALIFORNIA



ROOF PLAN
SCALE: 1/8" = 1'-0"



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

ELEVATION NOTES

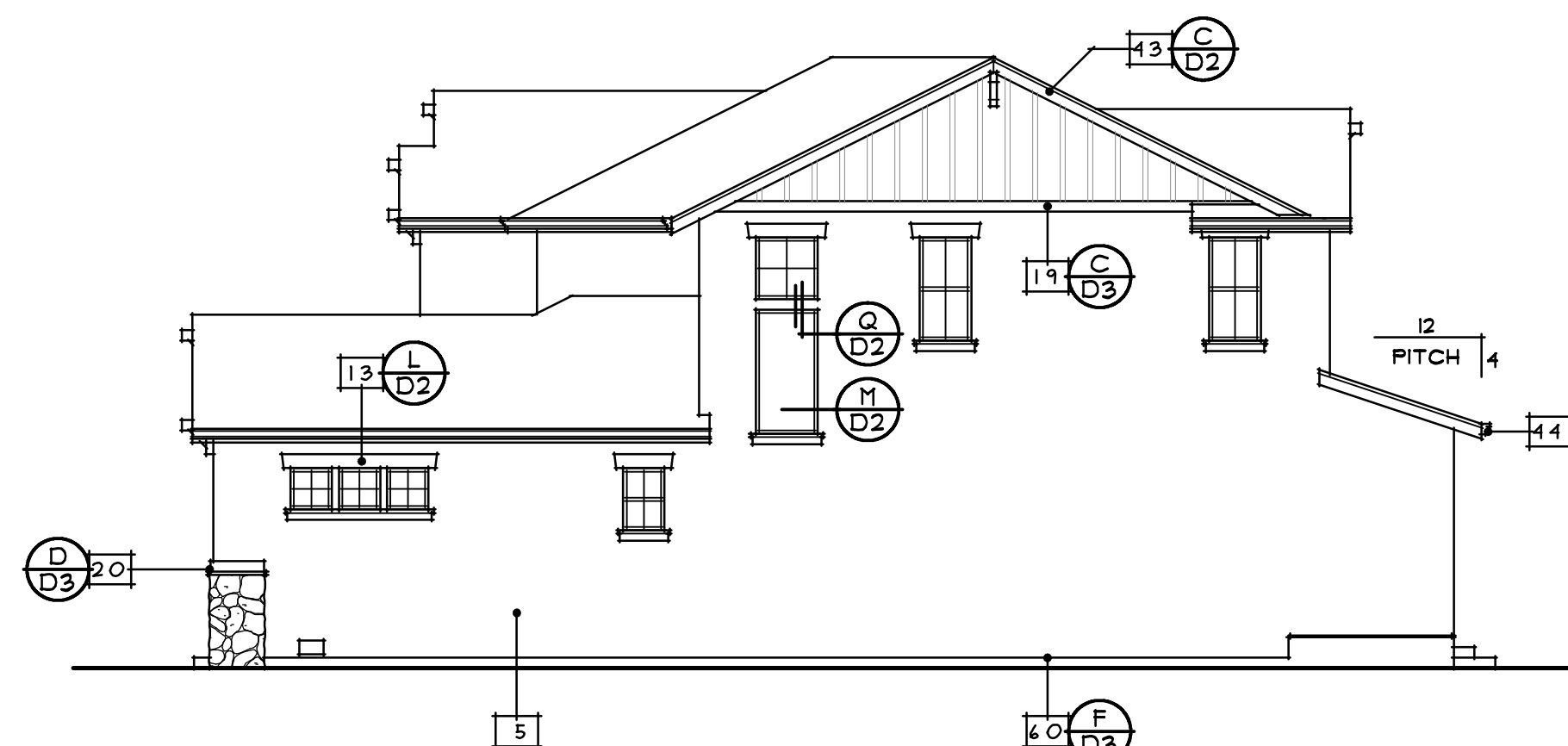
- STUCCO EXTERIOR: MIN. 1/8" W/ (3) COATS O/ MTL. LATH & (2) LAYERS OF GRADE D BUILDING PAPER OVER STRUCTURAL SHEATHING PER SHEAR WALL SCHEDULE 4/51" (1A) U.O.N. PROVIDE 24 GA. G.S.M. WEEP SCREED PER DETAIL.
- SMOOTH HARDIEPANEL VERTICAL SIDING OR EQUAL OVER APPROVED BUILDING PAPER & APA RATED SHEATHING PER SHEAR WALL SCHEDULE 4/51" (1A) U.O.N. W/ HARDIE SMOOTH BATTENS (3/4" X 1/2" ACTUAL SIZE) AT 16" O.C.
- ADHERED STONE VENEER AT AREAS INDICATED APPLIED USING TYPE N OR S MORTAR OVER A 1/2 INCH SCRATCH COAT OVER METAL LATH OVER BUILDING PAPER PER CBC SECTION 2510.4 AND STRUCTURAL SHEATHING PER SHEAR WALL SCHEDULE 4/51" (1A) U.O.N. LATH IS ATTACHED TO THE SUPPORTING STUDS USING GALVANIZED FURRING NAILS SPACED 4 INCHES O.C. THE SCRATCH COAT MUST BE ALLOWED TO CURE NOT LESS THAN 48 HOURS BEFORE APPLYING THE VENEER. SEE ADHERED STONE VENEER NOTES ON COVERSHEET, MFR'S SPECIFICATIONS AND ICC REPORT ESR-1215 FOR ADDITIONAL APPLICATION INSTRUCTIONS. (SHEATHING BENEATH STONE VENEER SHALL BE LOUISIANA PACIFIC "LP SHARTSIDE PRECISION SERIES" EXTERIOR PANEL SIDING IN COMPLIANCE WITH SFM LISTING 8140-2021: 0002 OR SIMILAR).
- 2 X 8 HEADER TRIM. (U.O.N.)
- 2 X 4 HORIZONTAL BAND.
- 2 X 4 HORIZONTAL BAND OVER STONE SILL.
- METAL SECTIONAL GARAGE DOOR.
- VINYL FRAME WINDOWS W/ MUNTIN BARS WHERE INDICATED. MINIMUM ONE TEMPERED PANE, TYP AT ALL GLAZING.
- WOOD SILL. SEE DETAIL.
- SLOPED STONE SILL. SEE DETAIL.
- CONCRETE PORCH & STEPS.
- CONCRETE STOOP.
- 2 X 8 BARGE RAFTER W/ 1 X 3 SHINGLE MOLD OVER.
- GSM "OGEE" GUTTER OVER 2 X 8 FASCIA BOARD. INCLUDE DEBRIS GUARD PER WILDLAND URBAN INTERFACE REQUIREMENTS.
- O'HAGIN ROOF VENT. SEE VENT SCHEDULE.
- LOMANCO RIDGE VENT. SEE VENT SCHEDULE.
- COMPOSITION SHINGLE ROOF CLASS "A" RATED SHINGLES.
- 24 GA GSM FLASHING & VALLEYS WITH UNDERLAYMENT PER WILDLAND URBAN INTERFACE REQUIREMENTS.
- 24 GA GSM FLASHING & WALLS ABOVE ROOF. SEE DETAIL.
- 3" DIAMETER GSM DOWNSPOUT TYP. CONNECT ALL DOWNSPOUTS TO CLOSED CONDUITS DISCHARGING & EROSION RESISTANT AREA AWAY FROM STRUCTURE.
- LINE OF WALLS BELOW.
- PROVIDE STUCCO WEEP SCREED NOT LESS THAN 4" FROM GRADE.
- LINE OF BEAM BELOW.
- DECORATIVE OUTRIGGER. SEE DETAIL.
- FOUNDATION VENT. SEE VENT SCHEDULE AND ELECT/MECH PLAN. COVERED WITH NON-COMBUSTIBLE CORROSION RESISTANT WIRE MESH. MINIMUM 1/16" TO MAXIMUM 1/8" OPENINGS.
- DECORATIVE WOOD TRELLIS. SEE DETAIL.

NOTE: ALL EXTERIOR TRIM TO BE WOOD U.O.N.

NOTE: ALL EXTERIOR SIDING AND TRIM TO BE SMOOTH U.O.N.

NOTE: DIVERT PLUMBING VENTS, ROOF VENTS, SOLAR TUBES AND OTHER ROOF PENETRATIONS TO BACK SIDE OF RIDGE WHEREVER POSSIBLE.

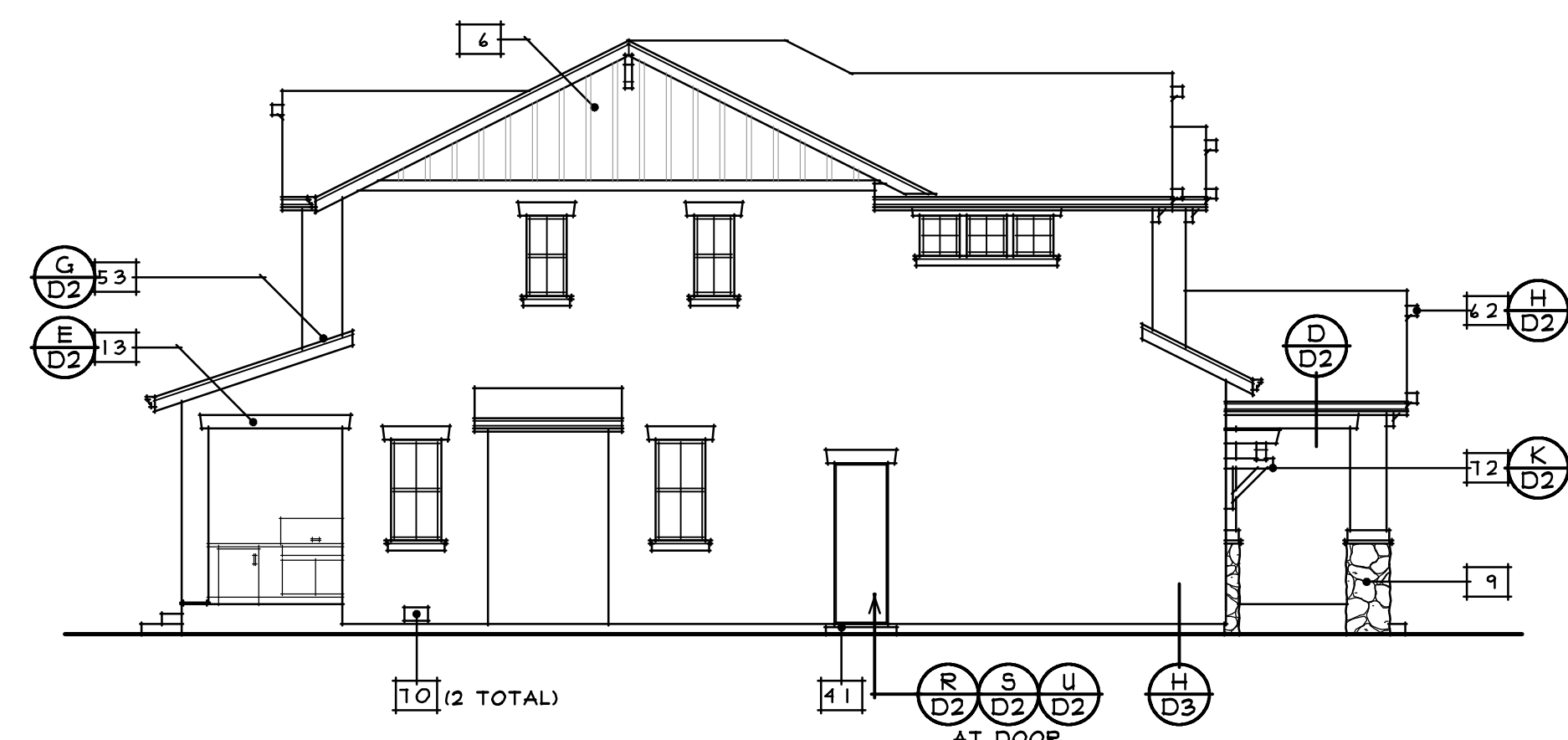
NOTE: COMPLY WITH WUI REQUIREMENTS FOR ALL EXTERIOR ASSEMBLIES. SEE COVERSHEET FOR NOTES.



RIGHT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



REAR ELEVATION
SCALE: 1/8" = 1'-0"

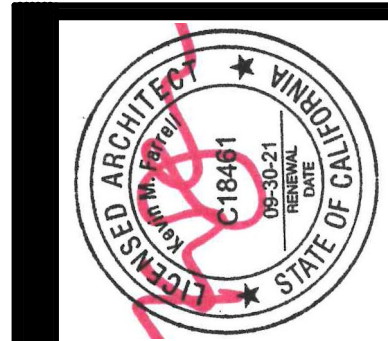


LEFT SIDE ELEVATION
SCALE: 1/8" = 1'-0"

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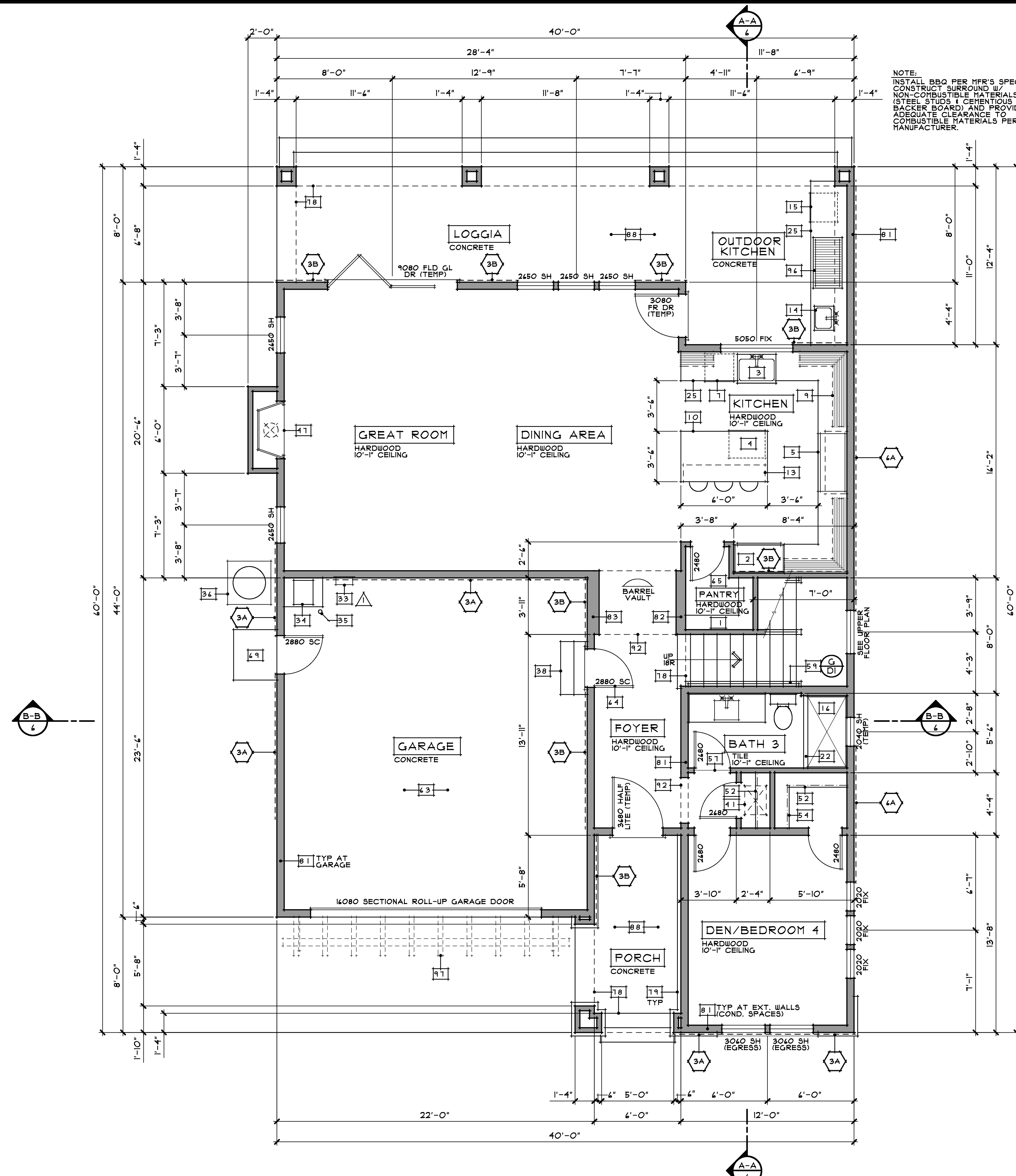
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LOWER FLOOR PLAN

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

LOWER FLOOR LIVING AREA = APPROX 1263 SQ FT
UPPER FLOOR LIVING AREA = APPROX 1419 SQ FT
TOTAL LIVING AREA = APPROX 2682 SQ FT
GARAGE AREA = APPROX 508 SQ FT
COVERED OUTDOOR AREA = APPROX 463 SQ FT

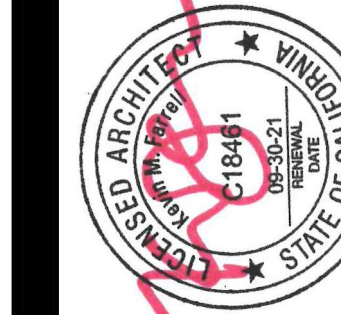
FLOOR PLAN NOTES

1. PANTRY - 4 SHELVES.
2. PROVIDE 42" BUILT-IN REFRIGERATOR/FREEZER AND PLUMBING FOR ICE MAKER IN RECESSED WALL BOX.
3. FARM-STYLE KITCHEN SINK W/ GARBAGE DISPOSAL. (PROVIDE VENT LOOP AS NECESSARY PER CPC 909.0)
4. BUILT-IN MICROWAVE BELOW COUNTER (VERIFY DIMS W/MFR.)
5. SLIDE-IN RANGE-OVEN WITH MICROVAE ABOVE. VENT TO EXTERIOR AND PROVIDE BACKDRAFT DAMPER. (VERIFY DIMS W/MFR.)
7. BUILT-IN DISHWASHER. (VERIFY DIMENSIONS W/MFR.)
9. LINE OF CABINETS ABOVE.
10. KITCHEN ISLAND COUNTER TOP. (SEE PLAN FOR DIMS.)
13. 36" HIGH BREAKFAST BAR.
14. STAINLESS STEEL PARTY SINK. VERIFY DIMS. W/MFR. (PROVIDE VENT LOOP AS NECESSARY PER CPC 909.0)
15. UNDER-COUNTER REFRIGERATOR. VERIFY DIMS. W/MFR.
16. TILE SHOWER ENCLOSURE W/ MIN. 12" WAINSCOT (STALL SHALL COMPLY W/ SECTION 408 OF THE CALIF. PLUMBING CODE.)
17. FIBERGLASS TUB/SHOWER COMB. W/ 12" TILE WAINSCOT. PROVIDE ONE-PIECE WELDED TRAP OR ACCESS PANEL PER LOCAL CODE.
19. FREE STANDING TUB PER OWNER. (INSTALL SHALL COMPLY W/ SECTION 409 OF THE CALIF. PLUMBING CODE.)
20. 20" HIGH CERAMIC TILE SEAT/PLATFORM.
22. TEMPERED GLASS ENCLOSURE. SHOWER DOORS SHALL OPEN SO AS TO MAINTAIN NOT LESS THAN A 22" UNOBSTRUCTED OPENING FOR EGRESS.
25. BASE CABINET.
27. LINEN-6 SHELVES
28. WASHER SPACE. PROVIDE HOT & COLD WATER AND WASTE. PROVIDE PAN & 3/4" DRAIN AT SECOND FLOOR INSTALLATIONS.
29. DRYER SPACE. PROVIDE 4" DIA. SMOOTH WALLED VENT TO ROOF. INSULATE VENT WHERE IT PASSES THROUGH UNHEATED ATTIC SPACE. INSTALL DRYER VENT ROOF CAP W/ BACKDRAFT DAMPER & ROOF. (VENT RUN SHALL COMPLY WITH MANUFACTURER'S SPECS. AND SECTIONS 504 & 905 OF THE CMC.)
33. TANKLESS WATER HEATER MOUNTED ON WALL. INSTALL PRESSURE RELIEF VALVE W/ VENT, AND DRAIN TO OUTSIDE (COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND LOCAL CODES). (REFER TO ENERGY COMPLIANCE REPORT). DIRECT VENT TO ROOF. INCLUDE HOT WATER RECIRCULATION PUMP.
34. FAU ON 18" HIGH PLATFORM. (INSTALLATION OF FURNACE SHALL COMPLY W/ CHAPTER 1 OF THE CALIF. MECH. CODE & MFR. SPECS.) (REFER TO ENERGY COMPLIANCE REPORT).
35. 3" DIAMETER CONCRETE FILLED STEEL PIPE.
36. PROVIDE CONCRETE PADS FOR AIR CONDITIONING UNITS. (INSTALL PER MFR. SPECIFICATIONS).
38. CONCRETE STEP.
40. DUCT SPACE.
41. 18" X 24" MIN. FOUNDATION ACCESS. GASKET OR WEATHER SEAL.
42. 22" X 30" ATTIC ACCESS. GASKET OR WEATHERSEAL.
47. DECORATIVE GAS APPLIANCE "MAJESTIC" ECHELON 1148". AGA ANSI Z223.1 (OR EQUAL) (INSTALL PER MFR.).
52. SINGLE POLE AND SHELF.
54. DOUBLE POLE AND SHELF.
51. LINE OF FLOORING SURFACE CHANGE.
58. GUARDRAIL. 42" MINIMUM HEIGHT (U.O.N.) SEE PLAN FOR DETAIL REF. LESS THAN 4" CLEAR SPACE BETWEEN MEMBERS.
59. HANDRAIL. (HEIGHT: 34" MIN TO 38" MAX) SEE PLAN FOR DETAIL REF. LESS THAN 4" CLEAR SPACE BETWEEN MEMBERS.
63. 1/2" GYP BOARD AT WALLS. 5/8" TYPE "X" GYP BOARD AT CEILING AT GARAGE. WRAP BEAMS & POSTS. TYPICAL.
64. SELF CLOSING AND SELF LATCHING 1 3/8" SOLID WOOD DOOR W/ TIGHT-FITTING GASKETS AND SWEEPER & SILL.
65. 5/8" TYPE "X" GYP. BOARD AT ALL STORAGE UNDER STAIRS. (INSTALL AT WALLS AND CEILING.)
69. CONCRETE STOOP.
74. LINE OF FLOOR BELOW.
78. LINE OF CEILING CHANGE ABOVE.
79. LINE OF ADHERED STONE VENEER.
81. 2 x 4 STUDS @ 16" OC WALL.
82. 2 x 8 STUDS (OR 2-2 X 4) @ 16" OC WALL.
83. 2 x 10 STUDS (OR 2 X 4 & 2 X 6) @ 16" OC WALL.
88. STUCCO SOFFIT/CEILING.
92. ARCH/FLAT TOP OPENING. SEE INTERIOR ELEVATIONS.
96. BUILT-IN BARBEQUE WITH METAL HOOD PER OWNER. (INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE CLEARANCE TO COMBUSTIBLE MATERIALS.)
97. TRELLIS. SEE ELEVATION.

XA SHEAR WALL SYMBOL. LOCATE SIZE AND NAILING PER STRUCTURAL DRAWINGS. 2A NAILING PATTERN AT ALL EXTERIOR WALLS (UON).

DATE 5/20

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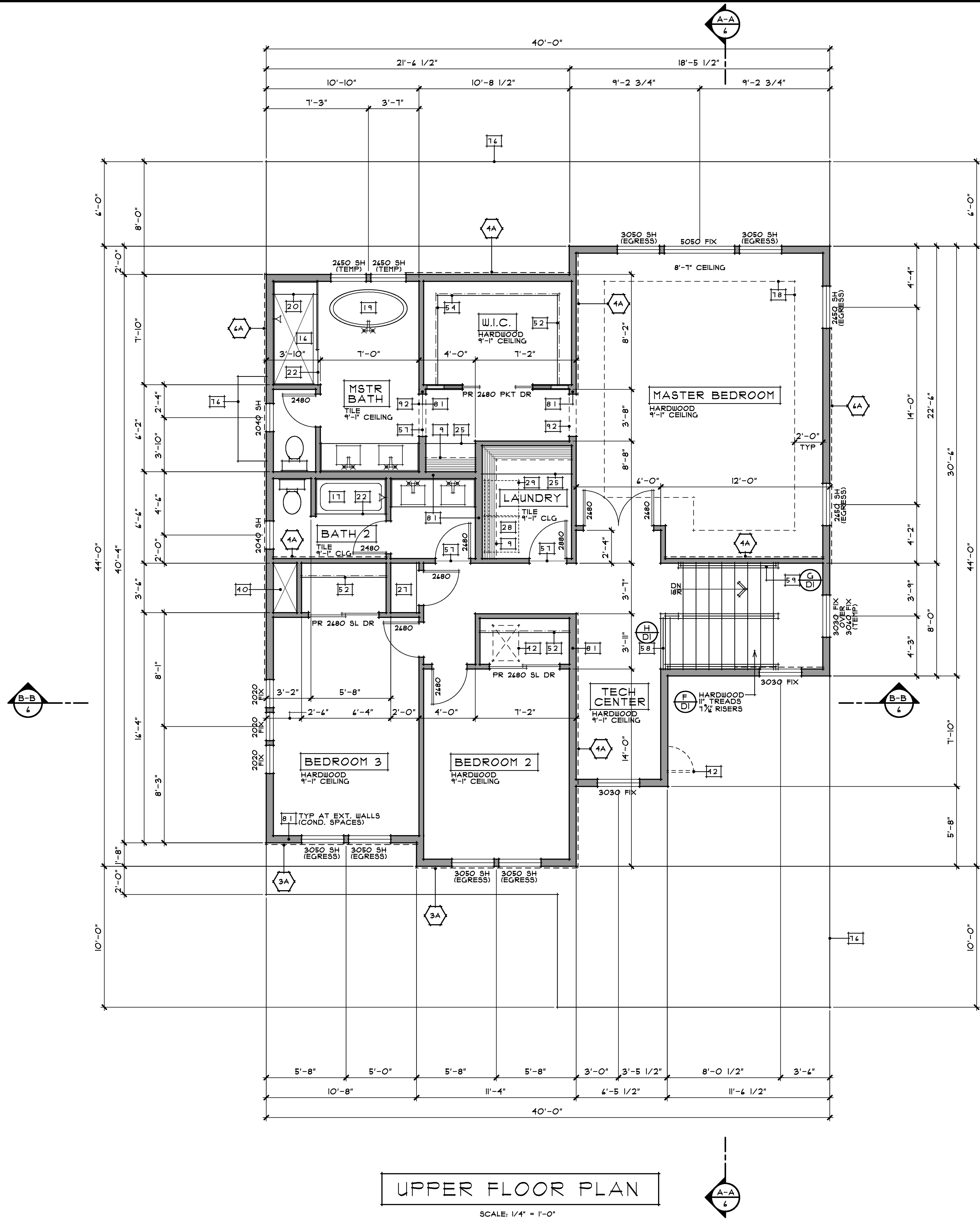
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FLOOR PLAN NOTES

1. PANTRY - 6 SHELVES.
 2. PROVIDE 42" BUILT-IN REFRIGERATOR/FREEZER AND PLUMBING FOR ICE MAKER IN RECESSED WALL BOX.
 3. FARM-STYLE KITCHEN SINK W/ GARBAGE DISPOSAL. (PROVIDE VENT LOOP AS NECESSARY PER CPC 909.0)
 4. BUILT-IN MICROWAVE BELOW COUNTER (VERIFY DIMS W/MFR.)
 5. SLIDE-IN RANGE-OVEN WITH MICROWAVE ABOVE. VENT TO EXTERIOR AND PROVIDE BACKDRAFT DAMPER. (VERIFY DIMS W/MFR.)
 6. BUILT-IN DISHWASHER. (VERIFY DIMENSIONS W/MFR.)
 7. LINE OF CABINETS ABOVE.
 8. KITCHEN ISLAND COUNTER TOP. (SEE PLAN FOR DIMS.)
 9. 36" HIGH BREAKFAST BAR.
 10. STAINLESS STEEL PARTY SINK. VERIFY DIMS. W/MFR. (PROVIDE VENT LOOP AS NECESSARY PER CPC 909.0)
 11. UNDER-COUNTER REFRIGERATOR. VERIFY DIMS. W/MFR.
 12. TILE SHOWER ENCLOSURE W/ MIN. 12" WAINSCOT (STALL SHALL COMPLY W/ SECTION 408 OF THE CALIF. PLUMBING CODE.)
 13. FIBERGLASS TUB/SHOWER COMB. W/ 12" TILE WAINSCOT. PROVIDE ONE-PIECE WELDED TRAP OR ACCESS PANEL PER LOCAL CODE.
 14. FREE STANDING TUB PER OWNER. (INSTALL SHALL COMPLY W/ SECTION 409 OF THE CALIF. PLUMBING CODE.)
 15. 20" HIGH CERAMIC TILE SEAT/PLATFORM.
 16. TEMPERED GLASS ENCLOSURE. SHOWER DOORS SHALL OPEN SO AS TO MAINTAIN NOT LESS THAN A 22" UNOBSTRUCTED OPENING FOR EGRESS.
 17. BASE CABINET.
 18. LINEN-6 SHELVES
 19. WASHER SPACE. PROVIDE HOT & COLD WATER AND WASTE. PROVIDE PAN & 3/4" DRAIN AT SECOND FLOOR INSTALLATIONS.
 20. DRYER SPACE. PROVIDE 4" DIA. SMOOTH WALLED VENT TO ROOF. INSULATE VENT WHERE IT PASSES THROUGH UNHEATED ATTIC SPACE. INSTALL DRYER VENT ROOF CAP W/ BACKDRAFT DAMPER * ROOF. (VENT RUN SHALL COMPLY WITH MANUFACTURER'S SPECS. AND SECTIONS 504 & 905 OF THE CMC.)
 21. TANKLESS WATER HEATER MOUNTED ON WALL. INSTALL PRESSURE RELIEF VALVE W/ VENT, AND DRAIN TO OUTSIDE (COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND LOCAL CODES). (REFER TO ENERGY COMPLIANCE REPORT).
 22. DIRECT VENT TO ROOF.
 23. INCLUDE HOT WATER RECIRCULATION PUMP.
 24. FAU ON 18" HIGH PLATFORM. (INSTALLATION OF FURNACE SHALL COMPLY W/ CHAPTER 1 OF THE CALIF. MECH. CODE & MFR. SPECS.) (REFER TO ENERGY COMPLIANCE REPORT).
 25. 3" DIAMETER CONCRETE FILLED STEEL PIPE.
 26. PROVIDE CONCRETE PADS FOR AIR CONDITIONING UNITS. (INSTALL PER MFR. SPECIFICATIONS).
 27. CONCRETE STEP.
 28. DUCT SPACE.
 29. 18" X 24" MIN. FOUNDATION ACCESS. GASKET OR WEATHER SEAL.
 30. 22" X 30" ATTIC ACCESS. GASKET OR WEATHERSEAL.
 31. DECORATIVE GAS APPLIANCE "MAJESTIC" ECHELON 11 48". AGA ANSI Z223.1 (OR EQUAL) (INSTALL PER MFR.).
 32. SINGLE POLE AND SHELF.
 33. DOUBLE POLE AND SHELF.
 34. LINE OF FLOORING SURFACE CHANGE.
 35. GUARDRAIL 42" MINIMUM HEIGHT (U.O.N.) SEE PLAN FOR DETAIL REF. LESS THAN 4" CLEAR SPACE BETWEEN MEMBERS.
 36. HANDRAIL. (HEIGHT: 34" MIN TO 38" MAX) SEE PLAN FOR DETAIL REF. LESS THAN 4" CLEAR SPACE BETWEEN MEMBERS.
 37. 1/2" GYP BOARD AT WALLS. 5/8" TYPE "X" GYP BOARD AT CEILING AT GARAGE. WRAP BEAMS & POSTS. TYPICAL.
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 41. LINE OF FLOOR BELOW.
 42. LINE OF CEILING CHANGE ABOVE.
 43. LINE OF ADHERED STONE VENEER.
 44. 2 x 6 STUDS @ 16" OC WALL.
 45. 2 x 8 STUDS (OR 2-2 X 4) @ 16" OC WALL.
 46. 2 x 10 STUDS (OR 2 X 4 @ 2 X 6) @ 16" OC WALL.
 47. STUCCO SOFFIT/CEILING.
 48. ARCH/FLAT TOP OPENING. SEE INTERIOR ELEVATIONS.
 49. BUILT-IN BARBEQUE WITH METAL HOOD PER OWNER. (INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE CLEARANCE TO COMBUSTIBLE MATERIALS.
 50. TRELLIS. SEE ELEVATION.
- XA SHEAR WALL SYMBOL. LOCATE SIZE AND NAILING PER STRUCTURAL DRAWINGS. 4A NAILING PATTERN AT ALL EXTERIOR WALLS (UON).

NOTE: OPENINGS BETWEEN RAILINGS AT STAIRS SHALL BE LESS THAN 4". THE TRIANGULAR OPENING FORMED BY THE RISER, TREAD, AND BOTTOM ELEMENT OF A GUARDRAIL SHALL BE LESS THAN 4". GUARDS ON THE OPEN SIDE OF STAIRS SHALL HAVE OPENINGS LESS THAN 4 3/8".

UPPER FLOOR PLAN

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

DATE
5/20

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PHOTOVOLTAIC NOTES

- THE MAIN ELECTRICAL SERVICE PANEL SHALL COMPLY WITH THE FOLLOWING:
 - MINIMUM BUSBAR RATING OF 200 AMPS
 - RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF DOUBLE POLE CIRCUIT BREAKER
 - SPACE SHALL BE POSITIONED AT THE OPPOSITE (LOAD) END FROM THE INPUT FEEDER LOCATION OR MAIN CIRCUIT LOCATION.
 - SPACE SHALL BE PERMANENTLY MARKED AS "FOR SOLAR ELECTRIC."
- AVOID ALL PENETRATIONS AT AREAS WHERE PANELS WILL BE LOCATED.
- PV ARRAYS CONTAIN SERIES (STRING) OF MODULES CONNECTED IN PARALLEL. STRING SHALL BE CONNECTED TOGETHER IN SERIES.
- PV ARRAY WIRING TO COMBINER SHOULD BE PV WIRE PER NEC 490.35(D).
- PV ARRAY COMBINER/JUNCTION BOX PROVIDES TRANSITION FROM ARRAY WIRING TO CONDUIT WIRING.
- OPTIMIZERS (IF USED) ACT AS REMOTE CONTROL ROOFTOP MODULE LEVEL DC DISCONNECTS.
- PROVIDE GROUND ELECTRODE SYSTEM FROM INVERTER TO EXISTING MAIN SERVICE GROUND ELECTRODE PER C.E.C. ARTICLE 250.50 THROUGH 250.86.
- GROUND ELECTRODE CONDUCTOR FROM INVERTER TO GROUND ELECTRODE TO BE MINIMUM OF LISTED VALUE ABOVE.
- LL MODULES AND RACKING SHALL BE GROUNDED. RACKING WITH TIN PLATED DIRECT BURIAL RATED LAY IN LUGS USING STAINLESS STEEL HARDWARE, STAR WASHERS, AND THREAD FORMING BOLTS. MODULES WITH WEBB CCR WASHERS AND GROUNDED TO THE RAIL.
- ALL GROUND AND NEUTRAL CONNECTIONS TO MAIN SERVICE GROUND IN MAIN SERVICE PANEL.
- INVERTER IS LISTED TO UL-1741 "UTILITY INTERACTIVE".
- ALL CONDUCTORS SHALL BE 600V, 90C STANDARD COPPER. ALL CONDUCTORS IN CONDUIT SHALL BE THIN-2.
- MAXIMUM DC VOLTAGE DROP FROM MODULE TO INVERTER SHALL BE 1.5%.
- ALL WORK TO COMPLY WITH (2014 NEC) 2014 CALIFORNIA ELECTRIC CODE ARTICLE 490, 2014 CALIFORNIA BUILDING CODE.
- DC ARRAY CONDUCTORS ARE TO REMAIN OUTSIDE OF BUILDING PRIOR TO FUSIBLE COMBINER BOX, COMPUTER CONTROLLED DC TO DC CONVERTER, OR FUSIBLE DISCONNECT MEANS.
- EXACT CONDUIT RUN LOCATIONS SUBJECT TO CHANGE.
- ALL LABELS AND MARKING TO FOLLOW ARTICLE 490 (IV).
- THE POINT OF CONNECTION SHALL COMPLY WITH CEC/NEC ARTICLE 490.64(B).
- ALL METALLIC EQUIPMENT SHALL BE GROUNDED, INCLUDING BONDING JUMPERS WHERE NECESSARY ACROSS RAIL SPLICE PLATES TO BOND INDIVIDUAL PIECES OF RAIL.
- ONLY COPPER (CU) CONDUCTORS SHALL BE USED. STRANDED OR SOLID WITH PROPERLY RATED CONNECTORS.
- INVERTER(S) CONTAIN A GROUND FAULT DETECTION AND INTERRUPTION DEVICE.
- ALL EQUATIONS ACCOUNT FOR WORST CASE CONDITIONS

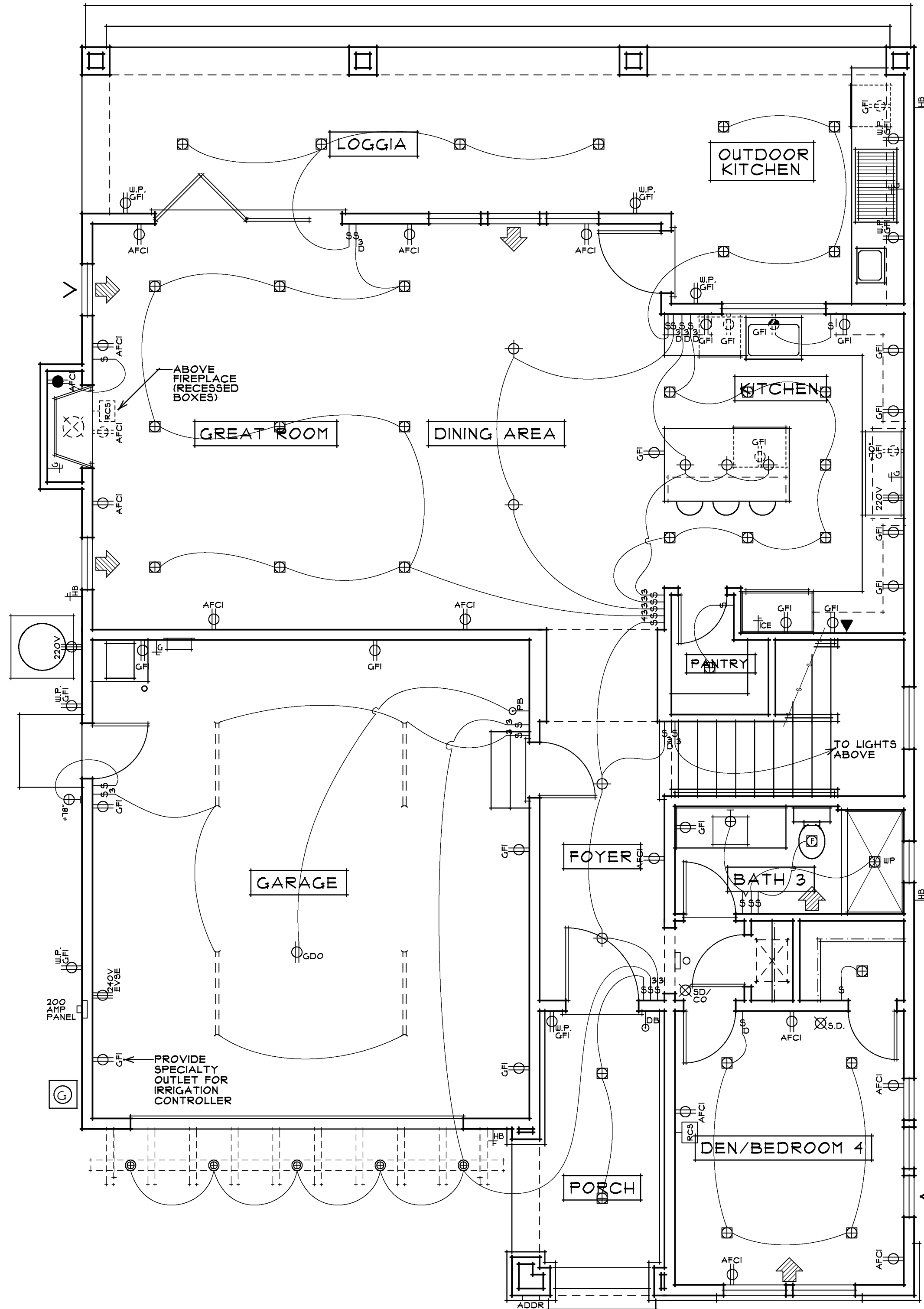
PHOTOVOLTAIC SYSTEM SIZE

$kW_{PV} \text{ REQUIRED} = (CFA \times A) / 1000 + (ND_{well} \times B)$

$kW_{PV} \text{ REQUIRED} = (1195 \times 0.421) / 1000 + (1 \times 1.22)$

$kW_{PV} \text{ REQUIRED} = 1.94$

PROVIDE 2.35 kW PV SYSTEM PER TITLE 24:
(1) 300W, ROOF MOUNTED MONO SOLAR
ELECTRIC PANELS GRID TIED



LOWER FLOOR ELECT/MECH PLAN

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

ELECTRICAL SYMBOLS

NOTE: NOT NECESSARILY ALL SYMBOLS ON THIS DRAWING.

- 1/2 HOT DUPLEX CONV. OUTLET WITH ARC FAULT CIRCUIT INTERRUPTER
- FULLY SWITCHED OUTLET WITH ARC FAULT CIRCUIT INTERRUPTER
- DUPLEX CONV. OUTLET WITH GROUND FAULT INTERRUPTER
- DUPLEX CONV. OUTLET WITH ARC FAULT CIRCUIT INTERRUPTER
- WATERPROOF DUPLEX CONV. OUTLET WITH GROUND FAULT INTERRUPTER
- UNDER COUNTER OUTLET WITH ARC FAULT CIRCUIT INTERRUPTER
- 220V. OUTLET ABOVE FOR GARAGE DOOR OPENER WITH ARC FAULT CIRCUIT INTERRUPTER
- 240 VOLT OUTLET DEDICATED FOR ELECTRIC VEHICLE SERVICE EQUIPMENT
- CEILING LED LIGHT FIXTURE
- 4" RECESSED LED LIGHT (40 LUMENS/WATT OR BETTER)
- 4" RECESSED PHOTO CONTROLLED LED LIGHT (40 LUMENS/WATT OR BETTER)
- 4" LED WATERPROOF RECESSED LIGHT WITH "SUITABLE FOR DAMP LOCATIONS" LABEL
- RECESSED AIMABLE SPOTLIGHT
- WALL MOUNTED LED LIGHT FIXTURE
- WALL MOUNTED LED GOOSENECK LIGHT FIXTURE WITH 18" LIGHT SHADE DIAMETER
- EXTERIOR WALL MOUNTED LIGHT FIXTURE CONTROLLED BY MOTION SENSOR WITH INTEGRAL PHOTOCONTROL
- SPOTLIGHT
- LED LIGHT FIXTURE
- LED PHOTO CONTROLLED LIGHT FIXTURE
- SINGLE POLE SWITCH
- THREE WAY SWITCH
- FOUR WAY SWITCH
- DIMMER SWITCH
- SWITCH WITH MANUAL-ON VACANCY SENSOR
- PUSH BUTTON COUNTERTOP SWITCH
- 110 VOLT SMOKE ALARM W/BATTERY BACK-UP (PER 2019 CRC SECTION R314 AND/OR NFPA 120)
- CARBON MONOXIDE/SMOKE ALARM COMBO WITH BATTERY BACK-UP (PER 2019 CRC SECT. R314 AND/OR NFPA 120)
- PHONE JACK
- RESIDENTIAL CABLE SYSTEM JACK
- PUSH BUTTON FOR GARAGE DOOR OPENER
- PUSH BUTTON FOR DOOR BELL
- CHIMES
- SECURITY SYSTEM PANEL
- SECURITY CAMERA, PROVIDE POWER AND ETHERNET
- SPEAKER
- ENERGY STAR RATED EXHAUST FAN CAPABLE OF PROVIDING 50 CFM MINIMUM WITH BACKDRAFT DAMPER (SEE GREEN REQUIREMENTS FOR SPECIFIC FAN CFM)
- THERMOSTAT
- ILLUMINATED ADDRESS SIGN
- ELECTRIC SUB-PANEL
- CABLE/DATA
- ELECTRIC METER
- JUNCTION BOX
- LOW VOLTAGE ACCENT LIGHT (LANDSCAPE)
- FOOT PATH LIGHT (ON PHOTO CONTROL SENSOR)
- SPECIALTY OUTLET
- CEILING FAN

NOTE: ALL OUTLETS TO BE LISTED AS "TAMPER RESISTANT" PER CEC, ARTICLE 404.2.

MECHANICAL SYMBOLS

NOTE: NOT NECESSARILY ALL SYMBOLS ON THIS DRAWING.

- CEILING HEAT REGISTER
- FLOOR HEAT REGISTER
- HEAT REGISTER HIGH ON WALL
- RETURN AIR GRILL IN CEILING
- RETURN AIR GRILL IN WALL
- FUEL GAS STUB OUT
- HOSE BIBB WITH NON-REMOVABLE BACKFLOW PREVENTION DEVICE
- ICE MAKER STUB OUT
- GAS METER
- DRYER VENT (TERMINATION OF VENT SHALL COMPLY W/SECTION 804.4, SECTION 504 AND 105.0 OF THE CHC)
- FOUNDATION VENT PER VENTILATION CALC

NOTE: ALL DUCTS (SEND AND RETURN) SHALL BE CLOSED SYSTEMS WITHOUT THE USE OF BUILDING CAVITIES. ALL DUCT CONNECTIONS SHALL BE INSTALLED WITH MECHANICAL FASTENERS. PROVIDE WEATHERSTRIP OR SEAL AT THE ATTIC ACCESS PANEL.

DATE

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ELECTRICAL NOTES:

PROVIDE 2-20 AMP BRANCH CIRCUITS AT KITCHEN, PANTRY, NOOK AND DINING ROOM PER CEC 210.52 (B), AND 220.54.

LAUNDRY TO BE ON SEPARATE 20 AMP CIRCUIT (220V ELECTRIC DRYER TO BE ON SEPARATE 30 AMP MIN CIRCUIT) PER CEC 210.11 (C) (D), 210.52(F), AND 220.14(B).

LIGHT FIXTURES IN TUB OR SHOWER ENCLOSURES OR OTHER WET/DAMP LOCATIONS SHALL BE SUITABLE FOR DAMP LOCATIONS

LIGHT FIXTURES IN CLOSETS SHALL BE LISTED AND COMPLY WITH CEC SECTION 410.14.

ALL SMOKE ALARMS AND CARBON MONOXIDE ALARMS SHALL BE WIRED SUCH THAT WHEN ANY ALARM IS ACTIVATED, SMOKE ALARMS IN ALL BEDROOMS WILL GO INTO ALARM.

RECEPTACLES FOR EACH BATHROOM TO BE ON SEPARATE CIRCUIT PER CEC 210.11 (C) (3).

ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT, SINGLE PHASE, 15 AND 20 AMPERE OUTLETS INSTALLED IN DWELLING UNIT SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER(S). OUTLETS INCLUDE RECEPTACLES, SWITCHES, LIGHT FIXTURES, SMOKE DETECTORS, ETC. PER CEC 210.12 (B).

PROVIDE UFER AND 2 GANG MUD-RING A ELECTRIC METER PER CEC 250.50 (A), (3) AND (4)

GROUNDING CONDUCTOR AT SERVICE PANEL TO BE BONDED TO ALL METAL PIPING PER CEC 250.104.

ALL RECEPTACLES ARE REQUIRED TO BE TAMPER-RESISTANT PER CEC 404.11.

PROVIDE A 240V 40 AMP DEDICATED CIRCUIT FOR FUTURE ELECTRICAL VEHICLE CHARGING EQUIPMENT INSTALL IN RACEWAY AND JUNCTION BOX AT PROBABLE CHARGING LOCATION.

2019 CALIFORNIA ENERGY STANDARD LIGHTING OVERVIEW:

KITCHEN: ALL OF THE INSTALLED WATTAGE OF LIGHTS IN KITCHENS SHALL BE HIGH EFFICACY

BATHROOMS: ALL LUMINAIRES IN EACH BATHROOM MUST BE HIGH EFFICACY. AT LEAST ONE LUMINAIRE MUST BE CONTROLLED BY VACANCY SENSORS.

GARAGES, LAUNDRY ROOMS AND UTILITY ROOMS: ALL LUMINAIRES MUST BE HIGH EFFICACY AND MUST BE CONTROLLED BY A VACANCY SENSOR

OTHER ROOMS: ALL LIGHT FIXTURES SHALL BE HIGH EFFICACY AND SHALL BE CONTROLLED BY A VACANCY SENSOR OR DIMMER. CLOSETS THAT ARE LESS THAN 10 SQUARE FEET ARE EXEMPT FROM THIS REQUIREMENT.

OUTDOOR LIGHTING: ALL LIGHT FIXTURES MOUNTED TO THE BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL HAVE HIGH EFFICACY. LIGHT FIXTURES AND SHALL BE CONTROLLED BY A PHOTO CONTROL / NOTION SENSOR COMBINATION

RECESSED LUMINAIRES IN INSULATED CEILINGS: LUMINAIRES THAT ARE RECESSED INTO INSULATED CEILINGS ARE REQUIRED TO BE RATED FOR INSULATION CONTACT (IC-RATED), GEL-SEALING, AND HAVE A JA8-2014-E LIGHT FIXTURE. THE HOUSING OF THE LIGHT FIXTURE SHALL PREVENT AIR LEAKAGE AND BE SEALED.

HIGH EFFICACY: LUMINAIRES TO BE JA8-2014 QUALIFIES PER TABLE 150.0-A. LUMINAIRES INSTALLED TO MEET THE 40 LUMENS PER WATT REQUIREMENTS SHALL NOT CONTAIN MEDIUM BASE SOCKETS AND SHALL BE ON SEPARATE SWITCHES FROM ANY INCANDESCENT LIGHTING.

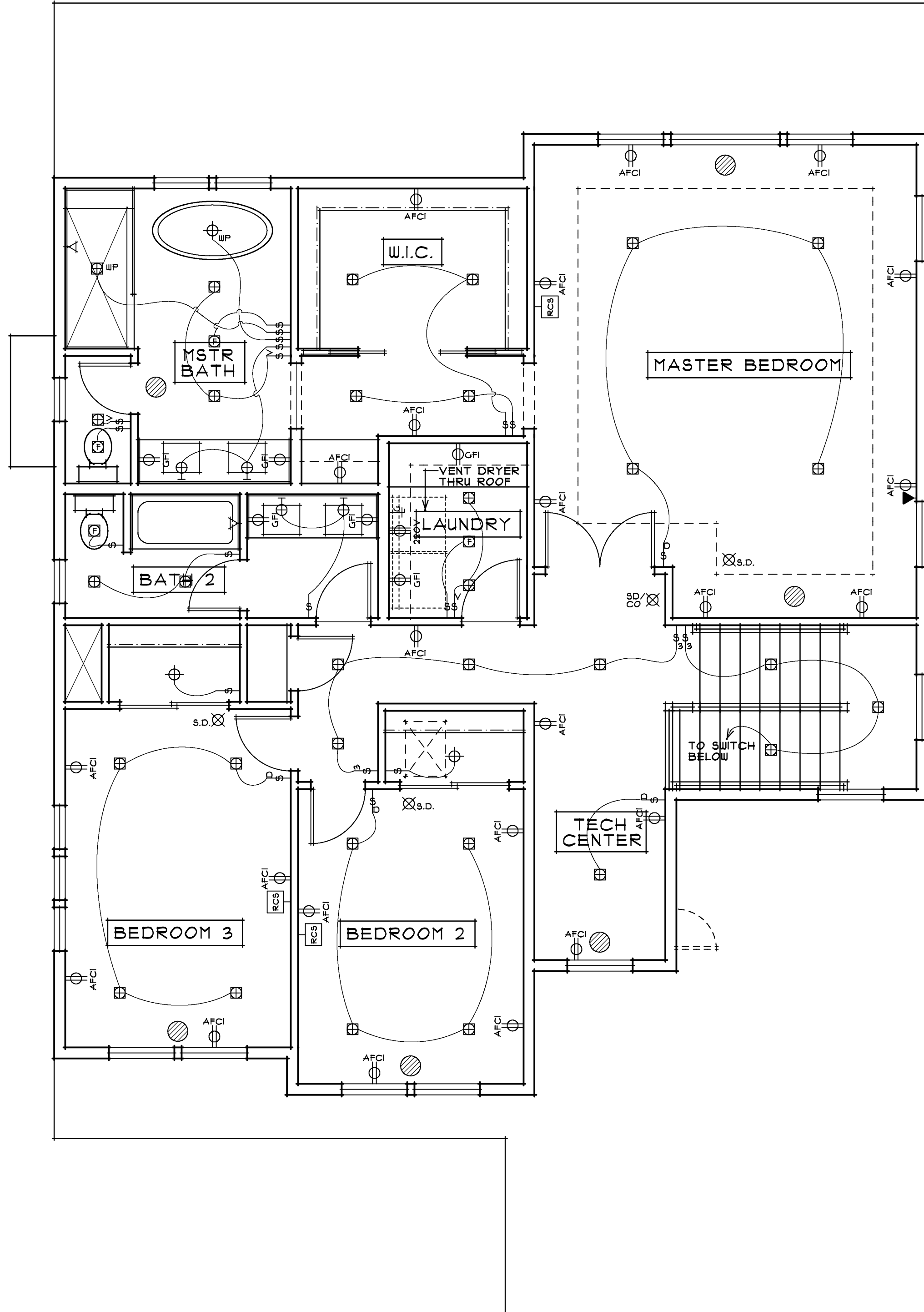
VENTILATION NOTES:

KITCHEN HOOD EXHAUST FAN MUST BE INSTALLED AND DELIVER VENTILATION AIRFLOW AT 100 CFM OR GREATER PER SECTION 150.0 OF CALIFORNIA ENERGY CODE AND ANSI/ASHRE STANDARD 42.2; 5" DUCT DIAMETER; 35' MAX LENGTH FLEX DUCT OR 85' MAX LENGTH SMOOTH DUCT (DEDUCT 15' OF ALLOWABLE LENGTH FOR EACH ELBOW).

ALL BATHROOMS CONTAINING BATHTUB, SHOWERS, SPAS AND SIMILAR BATHING FIXTURES SHALL BE MECHANICALLY VENTILATED IN ACCORDANCE WITH SECTION 403.1 OF C.M.C. OR SECTION R303.3 OF CRC AND SECTION 150.0 OF CALIFORNIA ENERGY CODE AND ANSI/ASHRE STANDARD 42.2 BATHROOM FAN VENTILATION AIRFLOW SHALL BE 50 CFM OR GREATER, 4" DUCT DIAMETER; 10' MAX LENGTH FLEX DUCT OR 105' MAX LENGTH SMOOTH DUCT (DEDUCT 15' OF ALLOWABLE DUCT LENGTH FOR EACH ELBOW). ALL BATH FANS SHALL HAVE A HUMIDISTAT CONTROL WHEN NOT PART OF THE WHOLE HOUSE VENTILATION SYSTEM.

PRIMARY WHOLE HOUSE VENTILATION FAN AT MASTER BATH OR LAUNDRY MUST BE 40 CFM OR GREATER, BE ENERGY STAR RATED, SET UP FOR CONTINUOUS OPERATION AND COMPLY WITH DUCT DIAMETER AND LENGTH AS FOLLOWS: 5" MIN DUCT DIAMETER WITH 10' MAX LENGTH FLEX DUCT, OR 4" MAX DUCT DIAMETER WITH 35' MAX LENGTH SMOOTH DUCT (DEDUCT 15' OF ALLOWABLE DUCT LENGTH FOR EACH ELBOW). LABEL THE FAN SWITCH WITH THE FOLLOWING VERBAGE: "TO MAINTAIN MINIMUM LEVELS OF OUTSIDE AIR VENTILATION REQUIRED FOR GOOD HEALTH, THE FAN CONTROL SHOULD BE ON AT ALL TIMES WHEN THE BUILDING IS OCCUPIED, UNLESS THERE IS SEVERE OUTDOOR AIR CONTAMINATION".

NOTE: WHOLE HOUSE VENTILATION RATE AND PRESCRIPTIVE DUCT SIZING FOR SINGLE FAN EXHAUST SYSTEMS FROM ANSI/ASHRE STANDARD 42.2 TABLE 11.



UPPER FLOOR ELECT/MECH PLAN

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

ELECTRICAL SYMBOLS

NOTE: NOT NECESSARILY ALL SYMBOLS ON THIS DRAWING.

- 1/2 HOT DUPLEX CONV. OUTLET WITH ARC FAULT CIRCUIT INTERRUPTER
- FULLY SWITCHED OUTLET WITH ARC FAULT CIRCUIT INTERRUPTER
- DUPLEX CONV. OUTLET WITH GROUND FAULT INTERRUPTER
- DUPLEX CONV. OUTLET WITH ARC FAULT CIRCUIT INTERRUPTER
- WATERPROOF DUPLEX CONV. OUTLET WITH GROUND FAULT INTERRUPTOR
- UNDER COUNTER OUTLET WITH ARC FAULT CIRCUIT INTERRUPTER
- 220 VOLT OUTLET WITH ARC FAULT CIRCUIT INTERRUPTER
- OUTLET ABOVE FOR GARAGE DOOR OPENER WITH ARC FAULT CIRCUIT INTERRUPTOR
- 240 VOLT OUTLET DEDICATED FOR ELECTRIC VEHICLE SERVICE EQUIPMENT
- CEILING LED LIGHT FIXTURE
- 4" RECESSED LED LIGHT (40 LUMENS/WATT OR BETTER)
- 4" RECESSED PHOTO CONTROLLED LED LIGHT (40 LUMENS/WATT OR BETTER)
- 4" LED WATERPROOF RECESSED LIGHT WITH "SUITABLE FOR DAMP LOCATIONS" LABEL
- RECESSED AIMABLE SPOTLIGHT
- WALL MOUNTED LED LIGHT FIXTURE
- WALL MOUNTED LED GOOSENECK LIGHT FIXTURE WITH 18" LIGHT SHADE DIAMETER
- EXTERIOR WALL MOUNTED LIGHT FIXTURE CONTROLLED BY MOTION SENSOR WITH INTEGRAL PHOTOCONTROL
- SPOTLIGHT
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- PHONE JACK
- RESIDENTIAL CABLE SYSTEM JACK
- PUSH BUTTON FOR GARAGE DOOR OPENER
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- SECURITY SYSTEM PANEL
- SECURITY CAMERA, PROVIDE POWER AND ETHERNET
- SPEAKER
- ENERGY STAR RATED EXHAUST FAN CAPABLE OF PROVIDING 50 CFM MINIMUM WITH BACKDRAFT DAMPER (SEE GREEN REQUIREMENTS FOR SPECIFIC FAN CFM)
- THERMOSTAT
- ILLUMINATED ADDRESS SIGN
- ELECTRIC SUB-PANEL
- CABLE/DATA
- ELECTRIC METER
- JUNCTION BOX
- LOW VOLTAGE ACCENT LIGHT (LANDSCAPE)
- FOOT PATH LIGHT (ON PHOTO CONTROL SENSOR)
- SPECIALTY OUTLET
- CEILING FAN

NOTE: ALL OUTLETS TO BE LISTED AS "TAMPER RESISTANT" PER CEC, ARTICLE 404.12.

MECHANICAL SYMBOLS

NOTE: NOT NECESSARILY ALL SYMBOLS ON THIS DRAWING.

- CEILING HEAT REGISTER
- FLOOR HEAT REGISTER
- HEAT REGISTER HIGH ON WALL
- RETURN AIR GRILL IN CEILING
- RETURN AIR GRILL IN WALL
- FUEL GAS STUB OUT
- HOSE BIBB WITH NON-REMOVABLE BACKFLOW PREVENTION DEVICE
- ICE MAKER STUB OUT
- GAS METER
- DRYER VENT (TERMINATION OF VENT SHALL COMPLY W/SECTION 804.4, SECTION 504 AND 105.0 OF THE CHC)
- FOUNDATION VENT PER VENTILATION CALC5

NOTE: ALL DUCTS (SEND AND RETURN) SHALL BE CLOSED SYSTEMS WITHOUT THE USE OF BUILDING CAVITIES. ALL DUCT CONNECTIONS SHALL BE INSTALLED WITH MECHANICAL FASTENERS. PROVIDE WEATHERSTRIP OR SEAL AT THE ATTIC ACCESS PANEL.

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ATTIC VENT SCHEDULE

VENTS PROVIDED:

0' HAGIN COMPOSITION SHINGLE ATTIC VENT (OR EQUAL)
(0.50 SQ. FT. FREE FLOW AREA)
LOMANCO OMNI ROOF-WALL VENT MODEL OW-4 (OR EQUAL)
(0.06 SQ. FT. FREE FLOW AREA / LINEAL FOOT)
LOMANCO RIDGE VENT MODEL LOR-4
(0.08 SQ. FT. FREE FLOW AREA / LINEAL FOOT)

MAIN ROOF

ROOF AREA = 1501 SQ. FT. X 1/300
= 5.02 SQ. FT. REQ'D VENT AREA
-USE (24) LINEAR FEET RIDGE VENT = 2.08 SQ. FT. (HIGH)
-USE (4) 0' HAGIN SHINGLE VENT = 3.00 SQ. FT. (LOW)
TOTAL VENT AREA PROVIDED = 5.08 SQ. FT.

LOWER FRONT ROOF

ROOF AREA = 445 SQ. FT. X 1/300
= 1.48 SQ. FT. REQ'D VENT AREA
-USE (8) LINEAR FEET RIDGE VENT = 0.64 SQ. FT. (HIGH)
-USE (2) 0' HAGIN SHINGLE VENT = 1.00 SQ. FT. (LOW)
TOTAL VENT AREA PROVIDED = 1.64 SQ. FT.

LOWER REAR ROOF

ROOF AREA = 283 SQ. FT. X 1/150
= 1.89 SQ. FT. REQ'D VENT AREA
-USE (32) LINEAR FEET OF ROOF-WALL VENT = 1.92 SQ. FT.
TOTAL VENT AREA PROVIDED = 1.92 SQ. FT.

CHIMNEY ROOF

ROOF AREA = 12 SQ. FT. X 1/150
= 0.08 SQ. FT. REQ'D VENT AREA
-USE (2) LINEAR FEET OF ROOF-WALL VENT = 0.12 SQ. FT.
TOTAL VENT AREA PROVIDED = 0.12 SQ. FT.

NOTES: FOR "HIGH" AND "LOW" VENT DISTRIBUTION,
PLACEMENT OF "HIGH" VENTS SHALL BE A MIN. 36"
ABOVE THE EAVE. DISTRIBUTE "LOW" VENTING EVENLY
THROUGHOUT ROOF EAVE LINE. DISTRIBUTE "HIGH" VENTS
THROUGHOUT REAR I SIDE ELEVATION. MINIMIZE FRONT
ELEVATION PLACEMENT.

PROVIDE A CONTINUOUS RADIANT BARRIER PER
TITLE 24 (CF-1R)

ALL 0' HAGIN VENTS SHALL BE PAINTED TO MATCH ROOFING.

0' HAGIN VENTS SHALL BE "FIRE & ICE" LINE AND ARE
LISTED AT WWW.OHAGINVENTS.COM

RIDGE VENT SHALL BE COR-A-VENT (OR EQUAL) AND IS LISTED
AT WWW.COR-A-VENT.COM

ROOF-WALL VENTS SHALL BE LOMANCO OMNI-WALL VENTS (OR EQUAL)
AND ARE LISTED AT WWW.LOMANCO.COM

FOUNDATION VENT SCHEDULE

REDUCED VENTILATION CRAWLSPACE

VENTS PROVIDED (VULCAN VENTS OR EQUAL):

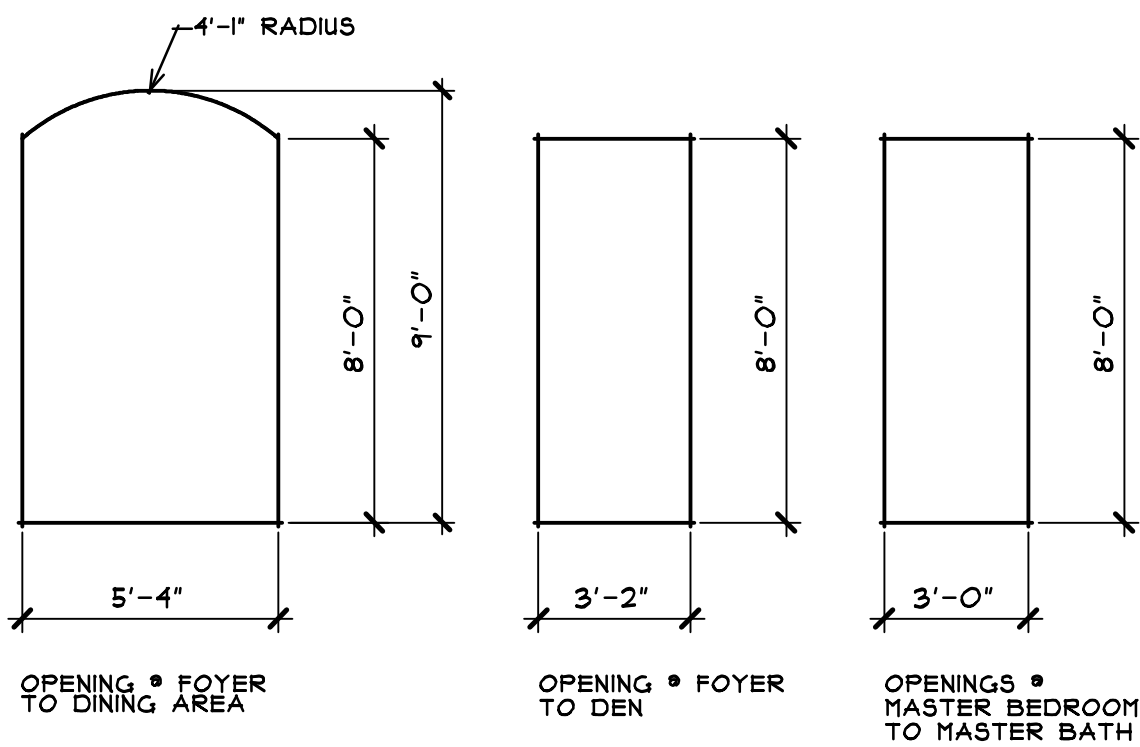
VFS814 8 X 14 SCREENED FOUNDATION VENT
(0.43 SQ. FT. FREE FLOW AREA)

FOUNDATION AREA = 1263 SQ. FT. X 1/1500
= 0.84 SQ. FT. REQ'D VENT AREA

-USE (2) 8 X 14 SCREENED FOUNDATION VENT = 0.86 SQ. FT.
TOTAL VENT AREA PROVIDED = 0.86 SQ. FT.

NOTE: VULCAN VENTS SCREEN VENTS ARE LISTED
AT WWW.CONSTRUCTIONMETALS.COM

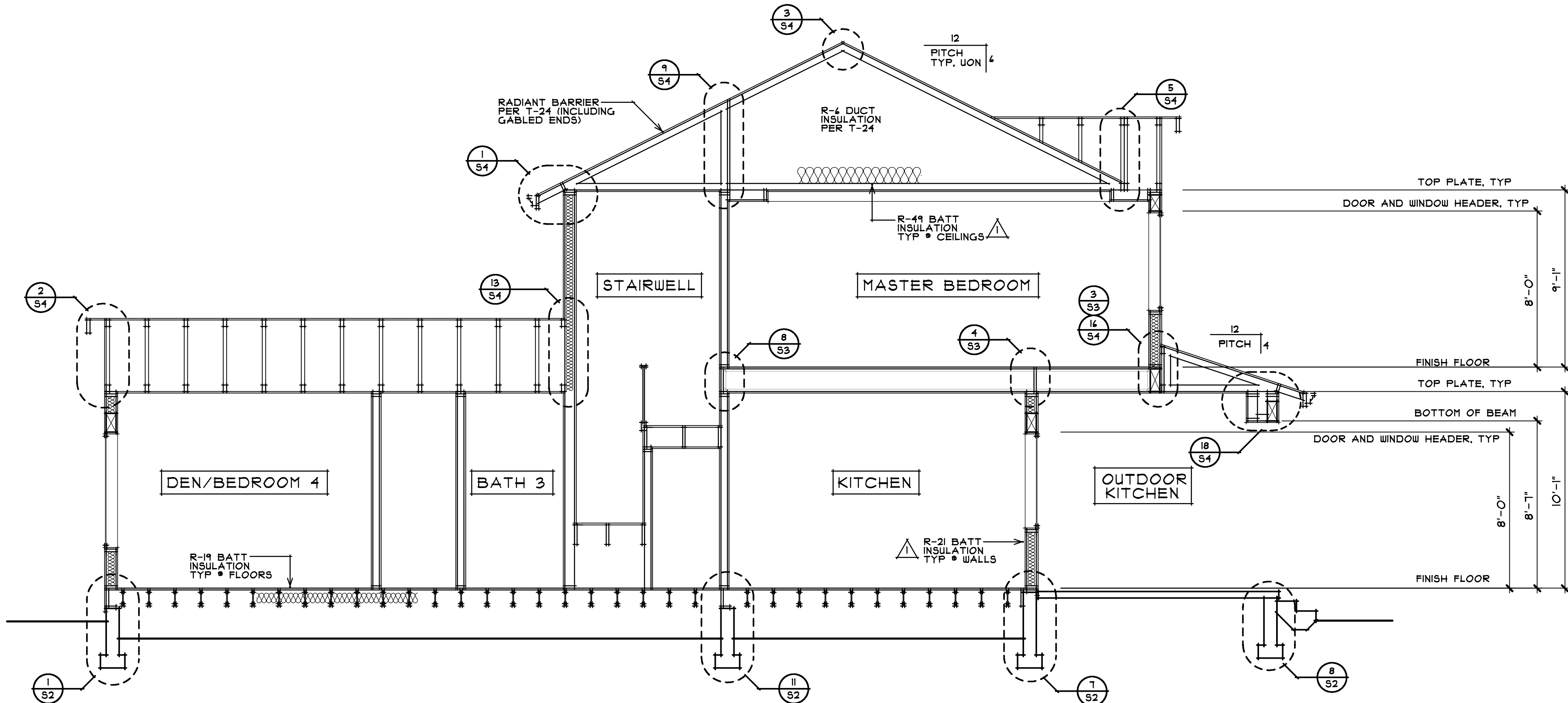
NOTE: THE EXPOSED EARTH SHALL BE COVERED BY A CONTINUOUS
CLASS I VAPOR RETARDER. JOINTS OF THE VAPOR RETARDER
SHALL OVERLAP BY 6" AND SHALL BE SEALED OR TAPED.
THE EDGES OF THE VAPOR RETARDER SHALL EXTEND AT LEAST
6" UP THE STEM WALL AND SHALL BE ATTACHED AND SEALED
TO THE STEM WALL.



NOTE: 6" JAMBS TYPICAL AT ALL CASED OPENINGS (W/O)

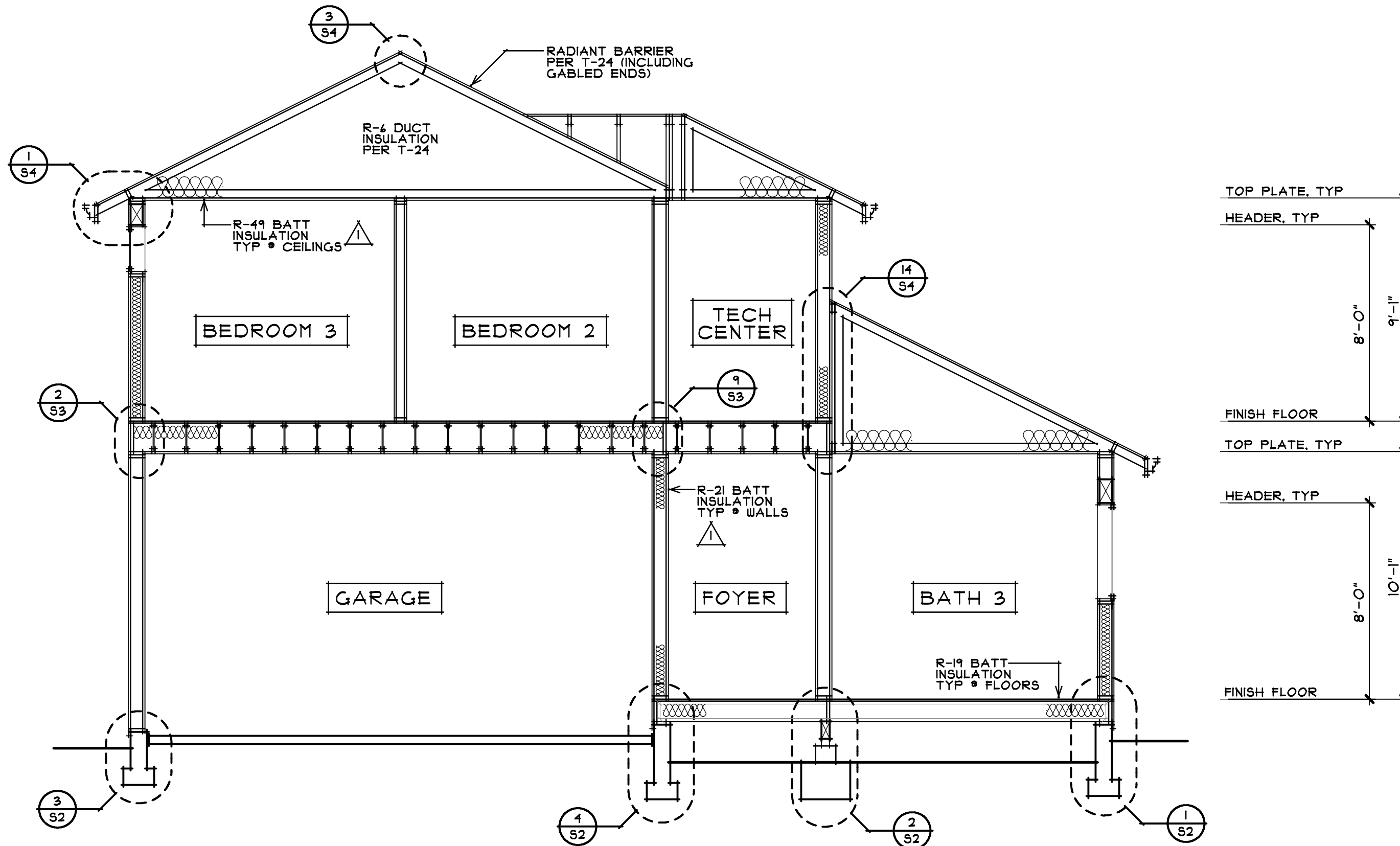
INTERIOR ELEVATIONS

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



SECTION A-A

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



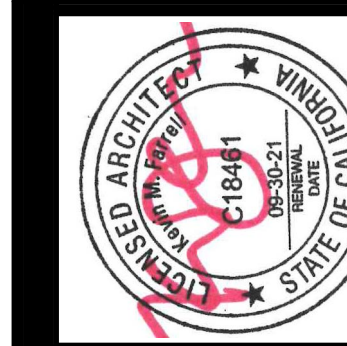
SECTION B-B

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

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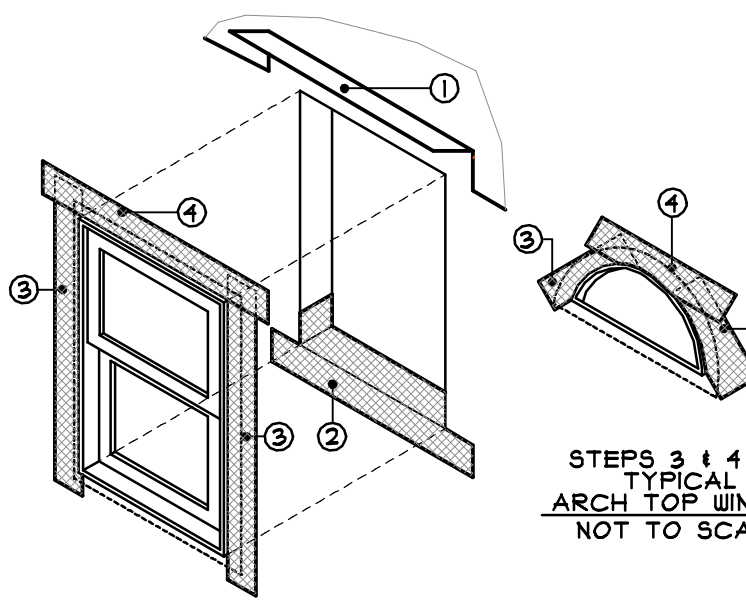
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1. CUT, FOLD UP & TEMPORARILY SECURE BUILDING PAPER, HOUSEWRAP OR FELT (AS OCCURS)
2. APPLY FLEXIBLE FLASHING STRIP (BITUTHENE OR EQUAL) TO OPENING AT WINDOW SILL BY FIRST FOLDING STRIP IN HALF LENGTHWISE THEN SLICING ENDS ALONG FOLD. (ALLOW FOR 3" MINIMUM OVERLAP PAST JAMB WHEN SIZING STRIP.) APPLY FLASHING OVER BOTTOM WINDOW SILL AT WALL THEN FOLD INTO WINDOW OPENING AS SHOWN.
3. APPLY FLEXIBLE FLASHING STRIPS (BITUTHENE OR EQUAL) TO EXTERIOR JAMB OPENINGS OVER JAMB FLANGES AS SHOWN. (ALLOW FOR A MINIMUM 3 INCH OVERLAP PAST HEAD FLANGE AND A MINIMUM 3 INCH OVERLAP PAST SILL FLANGE WHEN SIZING STRIP.)
4. APPLY FLEXIBLE FLASHING STRIP (BITUTHENE OR EQUAL) TO EXTERIOR WINDOW HEAD OVER HEAD FLANGE AS SHOWN. (ALLOW FOR A MINIMUM 3 INCH OVERLAP PAST HEAD FLANGE AND A MINIMUM 3 INCH OVERLAP PAST SILL FLANGE WHEN SIZING STRIP.) UNFOLD BUILDING PAPER, HOUSEWRAP OR FELT (AS OCCURS) OVER FLASHING AND TAPE EDGES.



TYPICAL WINDOW OPENING AT SIDING OR STUCCO
NOT TO SCALE

GENERAL GUIDELINES WHEN FLASHING OPENINGS

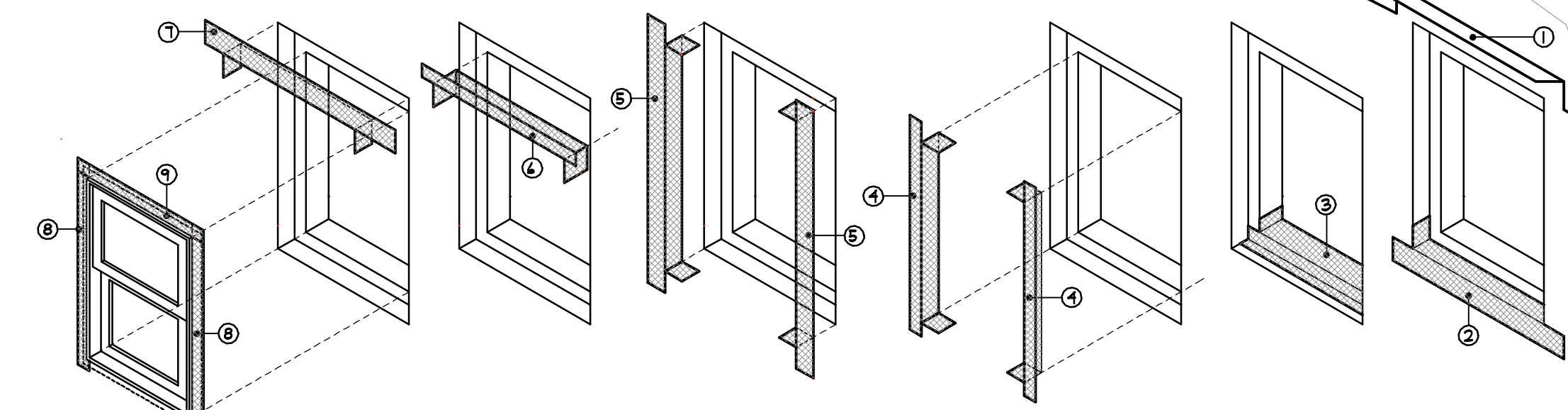
ALL LAPS OF FLASHING MATERIALS SHALL BE A MINIMUM OF 3 INCHES (WHERE POSSIBLE). ALL LAPS SHOULD SHED WATER (TOP MEMBRANE SHOULD BE APPLIED OVER BOTTOM LAYER, ETC.). MECHANICALLY FASTEN STRIPS AS NECESSARY AT VERTICAL TERMINATIONS.

VERIFY MANUFACTURER LISTED COMPATIBILITY OF FLASHING STRIPS WITH WEATHER RESISTIVE BARRIER (BUILDING PAPER, HOUSEWRAP, FELT, ETC.) AND ALL CAULKING AND SEALANT MATERIALS.

INSTALL PER MANUFACTURER'S LISTED REQUIREMENTS.

A FLASHING AT WINDOW OPENINGS

NOT TO SCALE



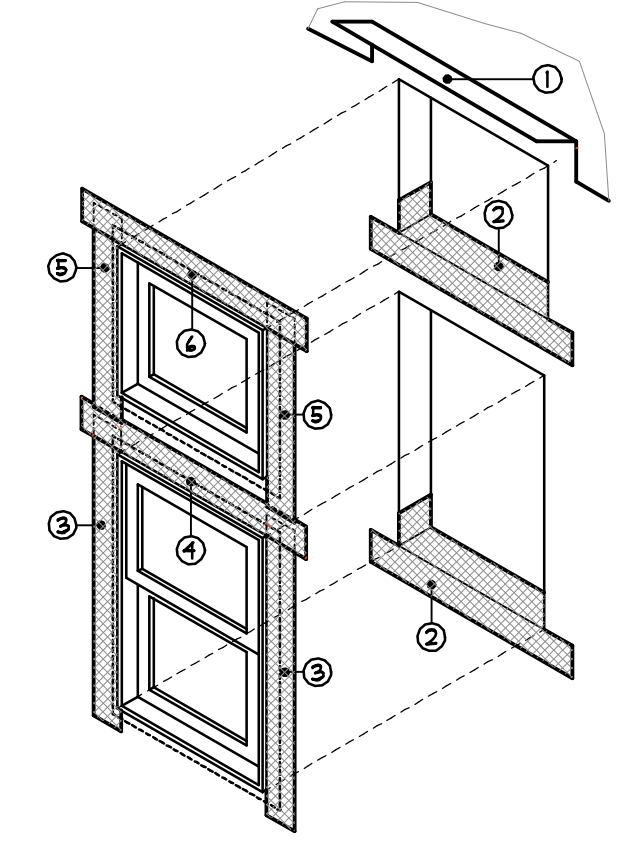
RECESSED WINDOW OPENING AT SIDING OR STUCCO
NOT TO SCALE

1. CUT, FOLD UP & TEMPORARILY SECURE BUILDING PAPER, HOUSEWRAP OR FELT (AS OCCURS)
2. APPLY FLEXIBLE FLASHING STRIP (BITUTHENE OR EQUAL) TO OUTER RECESS AT WINDOW SILL BY FIRST FOLDING STRIP IN HALF LENGTHWISE THEN SLICING ENDS ALONG FOLD. (ALLOW FOR 3" MINIMUM OVERLAP PAST JAMB WHEN SIZING STRIP.) APPLY FLASHING OVER BOTTOM WINDOW SILL AT WALL THEN FOLD INTO WINDOW RECESS AS SHOWN.
3. APPLY FLEXIBLE FLASHING STRIP (BITUTHENE OR EQUAL) TO INNER RECESS AT WINDOW SILL BY FIRST FOLDING STRIP INTO THIRDS LENGTHWISE, THEN SLICING ENDS ALONG TOP FOLD TO ALLOW FOR OVERLAP PAST JAMB TO ABUTTING WALL.

APPLY FLASHING OVER BOTTOM WINDOW SILL, BEND STRIP DOWN, THEN LAP REMAINDER OVER ALREADY APPLIED FLASHING STRIP AT OUTER WINDOW SILL RECESS AS SHOWN.

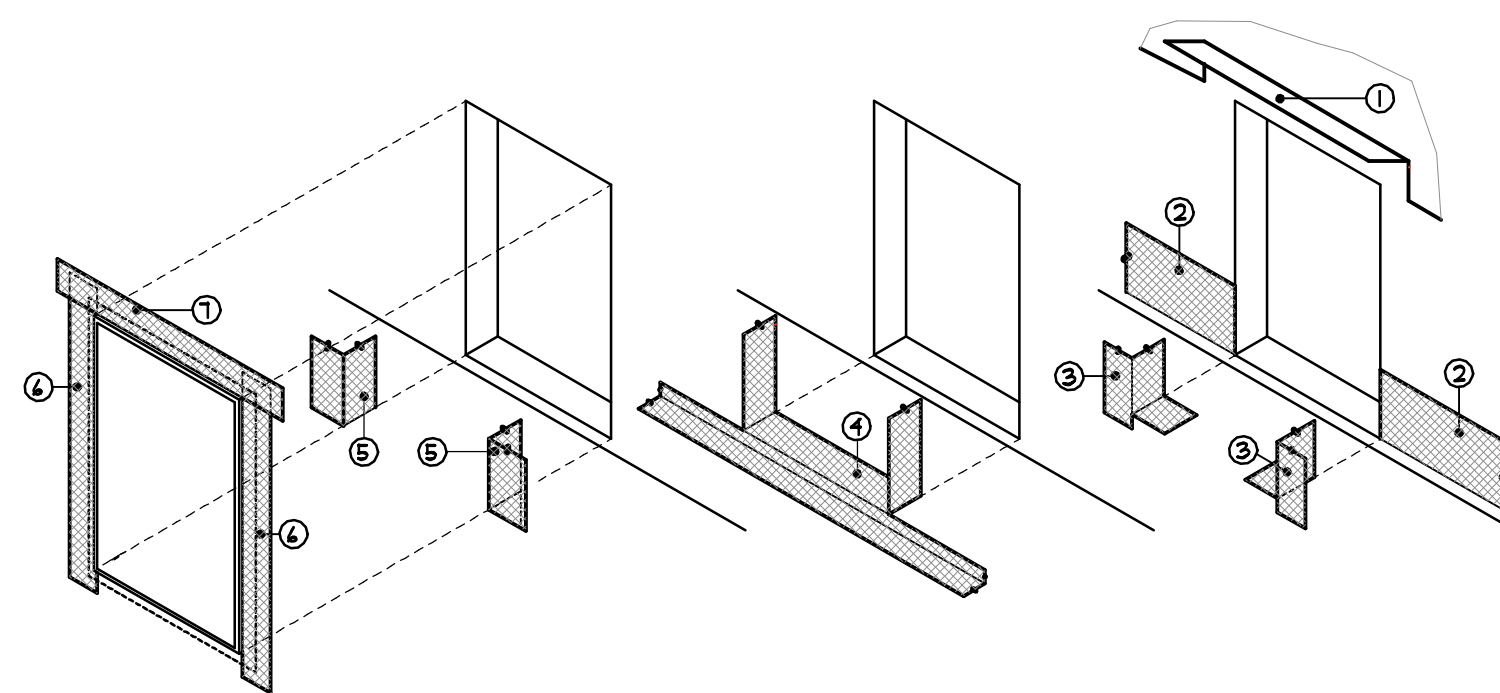
4. APPLY FLEXIBLE FLASHING STRIPS (BITUTHENE OR EQUAL) TO INNER RECESS JAMB OPENINGS BY FIRST FOLDING STRIPS IN HALF LENGTHWISE, THEN SLICING ENDS ALONG FOLD TO ALLOW FOR OVERLAP PAST HEAD TO ABUTTING WALL. APPLY FLASHING AT INNER JAMB RECESS, THEN FOLD AROUND TO OUTER JAMB AS SHOWN.
5. APPLY FLEXIBLE FLASHING STRIPS (BITUTHENE OR EQUAL) TO OUTER RECESS JAMB OPENINGS IN THE SAME MANNER AS DESCRIBED ABOVE. (WHEN SIZING STRIP, ALLOW FOR 3" MINIMUM OVERLAP PAST HEAD AND SILL TYPICAL.)

1. CUT, FOLD UP & TEMPORARILY SECURE BUILDING PAPER, HOUSEWRAP, OR FELT (AS OCCURS).
2. APPLY FLEXIBLE FLASHING STRIPS (BITUTHENE OR EQUAL) TO OPENINGS AT WINDOW SILLS BY FIRST FOLDING STRIPS IN HALF LENGTHWISE THEN SLICING ENDS ALONG FOLDS. (ALLOW FOR A 3" MINIMUM OVERLAP PAST JAMB WHEN SIZING STRIPS. APPLY FLASHING OVER BOTTOM WINDOW SILLS AT WALL, THEN FOLD INTO WINDOW OPENINGS AS SHOWN.)
3. APPLY FLEXIBLE FLASHING STRIPS (BITUTHENE OR EQUAL) TO EXTERIOR JAMB OPENINGS (AT LOWER WINDOW) OVER JAMB FLANGES AS SHOWN. (ALLOW FOR A MINIMUM 3 INCH OVERLAP PAST HEAD FLANGE AND A MINIMUM 3 INCH OVERLAP PAST SILL FLANGE WHEN SIZING STRIP.)
4. APPLY FLEXIBLE FLASHING STRIP (BITUTHENE OR EQUAL) TO BOTTOM EXTERIOR WINDOW HEAD OVER HEAD FLANGE AS SHOWN. (ALLOW FOR A MINIMUM 3 INCH OVERLAP PAST EACH JAMB FLASHING WHEN SIZING STRIP.)
5. APPLY FLEXIBLE FLASHING STRIPS (BITUTHENE OR EQUAL) TO EXTERIOR JAMB OPENINGS (AT UPPER WINDOW) OVER JAMB FLANGES AS SHOWN. (ALLOW FOR A MINIMUM 3 INCH OVERLAP PAST HEAD FLANGE AND A MINIMUM 3 INCH OVERLAP PAST SILL FLANGE WHEN SIZING STRIP.)
6. APPLY FLEXIBLE FLASHING STRIP (BITUTHENE OR EQUAL) TO UPPER EXTERIOR WINDOW HEAD OVER HEAD FLANGE AS SHOWN. (ALLOW FOR A MINIMUM 3 INCH OVERLAP PAST EACH JAMB FLASHING WHEN SIZING STRIP.) UNFOLD BUILDING PAPER, HOUSEWRAP OR FELT (AS OCCURS) OVER FLASHING AND TAPE EDGES.



TRANSOM WINDOW OPENINGS AT SIDING OR STUCCO
NOT TO SCALE

1. CUT, FOLD UP & TEMPORARILY SECURE BUILDING PAPER, HOUSEWRAP OR FELT (AS OCCURS).
2. APPLY FLEXIBLE FLASHING STRIP TO EXTERIOR WALL AS SHOWN. (SIZE STRIP TO RUN ENTIRE LENGTH OF DECK/SLAB (AS OCCURS)).
3. APPLY FLEXIBLE FLASHING STRIPS (BITUTHENE OR EQUAL) AT BOTTOM OF JAMB OPENINGS BY FIRST FOLDING STRIPS IN HALF BOTH DIRECTIONS, THEN SLICING ENDS UP TO HORIZONTAL FOLDS. (WHEN SIZING STRIPS, ALLOW FOR A 4 INCH MINIMUM EXTENSION FROM BOTTOM OF THRESHOLD, AND A 3 INCH MINIMUM EXTENSION AT THRESHOLD.) APPLY STRIPS AT INSIDE OF JAMBS FIRST, THEN WRAP DOWN AND AROUND AS SHOWN.
4. APPLY FLEXIBLE FLASHING STRIP (BITUTHENE OR EQUAL) AT THRESHOLD BY FIRST FOLDING STRIP INTO THIRDS TO MATCH STEP 3 THRESHOLD, ETC.) NEXT, SLICE STRIP AT UPPER FOLD (ALLOW FOR A MINIMUM 3 INCH OVER LAP PAST ALREADY APPLIED FLASHING AT JAMB). SIZE STRIP TO RUN ENTIRE LENGTH OF DECK/SLAB (AS OCCURS).
5. APPLY FLEXIBLE FLASHING STRIPS (BITUTHENE OR EQUAL) TO INSIDE JAMBS AS SHOWN. ALLOW FOR A 3 INCH MINIMUM LAP PAST ALREADY APPLIED FLASHING AT JAMBS.)
6. APPLY FLEXIBLE FLASHING STRIPS (BITUTHENE OR EQUAL) TO EXTERIOR JAMB OPENINGS OVER JAMB FLANGES AS SHOWN. (ALLOW FOR MINIMUM 3" OVERLAP PAST HEAD FLANGE AND A MINIMUM 3 INCH OVERLAP PAST SILL FLANGE WHEN SIZING STRIP.)
7. APPLY FLEXIBLE FLASHING STRIP (BITUTHENE OR EQUAL) TO EXTERIOR WINDOW HEAD OVER HEAD FLANGE AS SHOWN. (WHEN SIZING STRIP, ALLOW FOR A MINIMUM OVERLAP OF 3 INCHES PAST EACH JAMB FLASHING.) UNFOLD BUILDING PAPER, HOUSEWRAP OR FELT (AS OCCURS) OVER FLASHING AND TAPE EDGES.



TYPICAL DOOR OPENING AT SIDING OR STUCCO
NOT TO SCALE

NOTE: PER "GENERAL GUIDELINES WHEN FLASHING OPENINGS"

B FLASHING AT DOOR OPENINGS

NOT TO SCALE

REQUIREMENTS

1. WATER HEATER SHALL BEAR THE LABEL OF AN APPROVED TESTING AGENCY CPC 505.1.
2. GAS STORAGE-TYPE WATER HEATERS SHALL BE PROVIDED WITH AN OVER TEMPERATURE SAFETY PROTECTION DEVICE PER CPC 505.5.
3. GAS STORAGE-TYPE WATER HEATERS SHALL BE PROVIDED WITH A COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE PER CPC 505.4 & CPC 1004.1 TO 1004.3.2. THE VALVE SHALL BE CONNECTED TO A DRAIN LINE AND EXPEL TO EXTERIOR OF BUILDING PER CPC 508.5.
4. PROVIDE ADEQUATE COMBUSTION AIR PER CPC 501.0 - 501.5 AND CMC CHAPTER 1.
5. CLEARANCES FROM COMBUSTIBLE MATERIALS SHALL BE AS SPECIFIED IN THE LISTING OR ON THE RATING PLATE OF APPLIANCE (CPC 505.3).
6. PROTECTION OF WATER HEATER FROM DAMAGE SHALL BE AS FOLLOWS:

- A. WATER HEATERS LOCATED IN THE GARAGE SHALL BE INSTALLED TOP OF A RAISED PLATFORM. SOURCE OF IGNITION SHALL BE A MINIMUM OF 18 INCHES OFF THE FLOOR. THE PLATFORM SHALL BE SECURELY ANCHORED TO WALL FRAMING OR ADJACENT FLOOR FRAMING AS SHOWN.
- B. WATER HEATERS INSTALLED IN AREAS WHERE THEY MAY BE SUBJECT TO MECHANICAL DAMAGE SHALL BE INSTALLED BEHIND AN ADEQUATE BARRIER PER CPC 508.14.
- C. WATER HEATER SHALL BE STRAPPED TO RESIST HORIZONTAL DISPLACEMENT PER CPC 508.2. THE METHOD FOR STRAPPING SHALL COMPLY WITH THE STATE ARCHITECT GUIDELINES AS FOLLOWS:
 1. WATER HEATER MINIMUM NUMBER OF STRAPS AS FOLLOWS: UP TO 52 GALLONS - 2 STRAPS, 52 TO 75 GALLON - 3 STRAPS AND 76 GALLON & UP - 4 STRAPS.
 2. ONE STRAP SHALL BE LOCATED AT A POINT WITHIN THE UPPER 1/3 OF APPLIANCE AND ONE STRAP SHALL BE LOCATED AT A POINT WITHIN THE LOWER 1/3 OF ITS VERTICAL HEIGHT PER CPC 508.2. THE LOWEST STRAP SHALL BE A MINIMUM OF 4 INCHES ABOVE THE CONTROLS AND GAS INLET VALVE. THE HIGHEST STRAP SHALL BE LOCATED 9 INCHES BELOW THE TOP OF THE TANK.
 3. EACH STRAP SHALL CONSIST OF (2) 3/4 INCH X 24 GAUGE PLUMBERS TAPE SECURED TOGETHER AT ONE END WITH (1) 1/4 INCH DIAMETER X 1 INCH MACHINE SCREW, (1) FLAT WASHER AND (1) NUT. EACH REMAINING OPEN END TO BE ATTACHED TO 1/2 INCH DIAMETER THINWALL CONDUIT WITH FLATTENED ENDS, SECURED THROUGH PRE-DRILLED HOLES WITH 1/4 INCH DIAMETER X 1 INCH MACHINE SCREWS, FLAT WASHERS AND NUTS.

C GAS WATER HEATER PROTECTION

SCALE: 1/2" = 1'-0"

NOTE: PROVIDE ADEQUATE VENTING SYSTEM PER CPC CHAPTER 5 AND CMC CHAPTER 8

1/2" DIAMETER THINWALL (ENT) CONDUIT WITH ENDS FLATTENED TYPICAL (2)

NOTE: SEE PLAN FOR REQUIRED COMBUSTION AIR VENTS (AS MAY APPLY)

APPROVED WATER HEATER STRAP PER CPC 508.2 TYPICAL

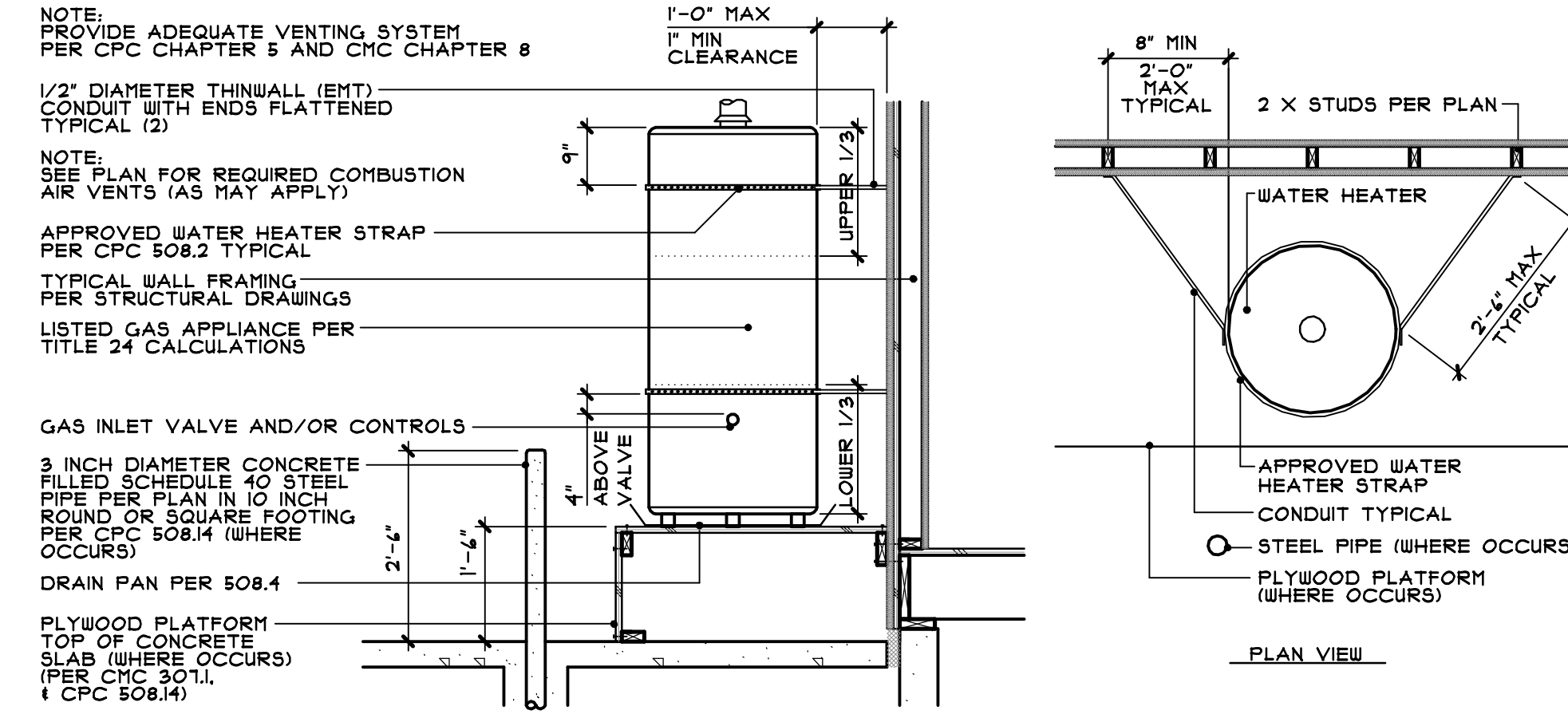
TYPICAL WALL FRAMING PER STRUCTURAL DRAWINGS

LISTED GAS APPLIANCE PER TITLE 24 CALCULATIONS

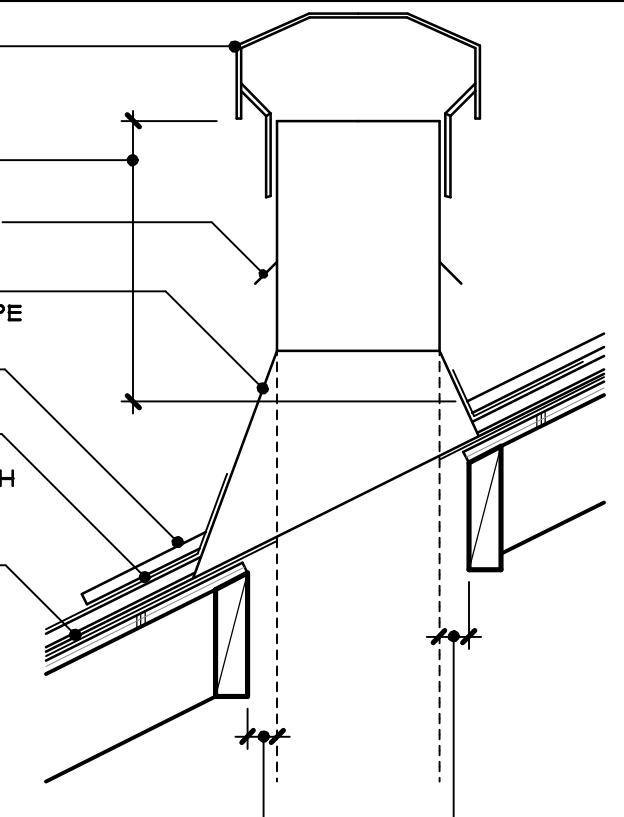
3 INCH DIAMETER CONCRETE FILLED SCHEDULE 40 STEEL PIPE PER PLAN IN 10 INCH ROUND OR SQUARE FOOTING PER CPC 508.14 (WHERE OCCURS)

DRAIN PAN PER 508.4

PLYWOOD PLATFORM TOP OF CONCRETE SLAB (WHERE OCCURS) (PER CPC 301.1) (CPC 508.14)



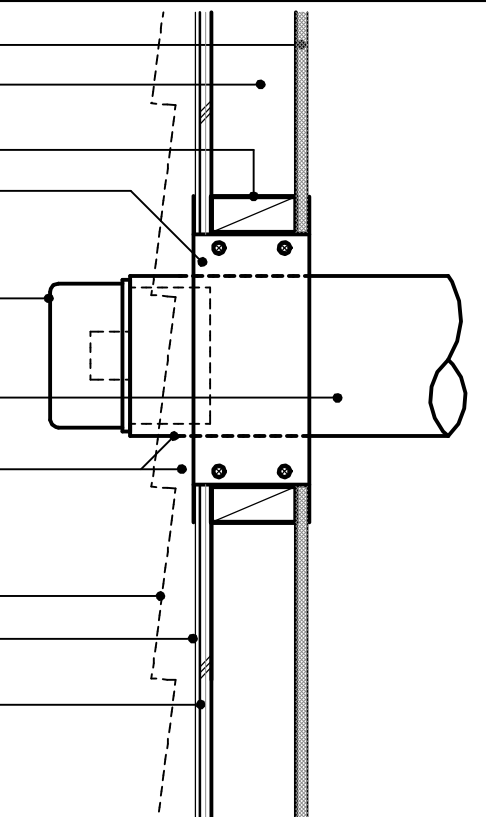
- VENT CAP PER MANUFACTURER (SEE PLAN FOR MODEL AND INSTALL PER MANUFACTURER'S REQUIREMENTS)
- FOR HEIGHT REQUIREMENTS SEE MANUFACTURER'S SPECIFICATIONS
- PRE-FABRICATED GALVANIZED SHEET METAL STORM COLLAR
- PRE-FABRICATED GALVANIZED SHEET METAL CONE - FITTED OVER VENT PIPE PER MANUFACTURER'S SPECIFICATIONS
- CUT SHINGLES TO ACCEPT FLASHING TYPICAL
- LEAD OR FLEXIBLE APRON FLASHING OVER CONE - PROVIDE MINIMUM 18 INCH SKIRT AROUND CONE TO ATTACH TO SHINGLE/TILE WITH APPROVED ROOFER'S MASTIC
- GALVANIZED SHEET METAL BASE FLASHING OVER DECKING TO EXTEND MINIMUM 6 INCHES FROM CONE OR BE COMPLETELY SEALED TO UNDERLAYMENT
- NOTE: VENTING SYSTEM MUST CONFORM WITH ALL LOCAL CODES AND/OR THE CURRENT NATIONAL FUEL GAS CODE ANSI Z223.1/NFPA 54
- MAINTAIN 2" CLEARANCE FROM ALL COMBUSTIBLE MATERIAL, OR PER MANUFACTURER SPECIFICATIONS



D GAS B-VENT PENETRATION AT ROOF

SCALE: 1 1/2" = 1'-0"

- GYPSUM BOARD PER PLAN
- TYPICAL WALL FRAMING PER STRUCTURAL DRAWINGS
- 2 X BLOCKING AT OPENING TYPICAL
- PRE-FABRICATED GALVANIZED SHEET METAL SLEEVE WITH FIRE-STOP COLLAR PER MANUFACTURER'S REQUIREMENTS
- PRE-FABRICATED VENT TERMINATION PER MANUFACTURER'S REQUIREMENTS (MAINTAIN HORIZONTAL PLANE)
- PRE-FABRICATED VENT PIPE PER MANUFACTURER'S REQUIREMENTS
- SEALANT AT PERIMETER OF VENT TERMINATION TO SIDING & SLEEVE TERMINATION TO SIDING (USE A HIGH TEMPERATURE SILICONE SEALANT RECOMMENDED BY MANUFACTURER)
- SIDING PER ELEVATION NOTES
- WEATHER RESISTIVE BARRIER PER ELEVATION NOTES
- APA RATED SHEATHING PER STRUCTURAL DRAWINGS
- NOTE: VENTING SYSTEM MUST CONFORM WITH ALL LOCAL CODES AND/OR THE CURRENT NATIONAL FUEL GAS CODE ANSI Z223.1/NFPA 54



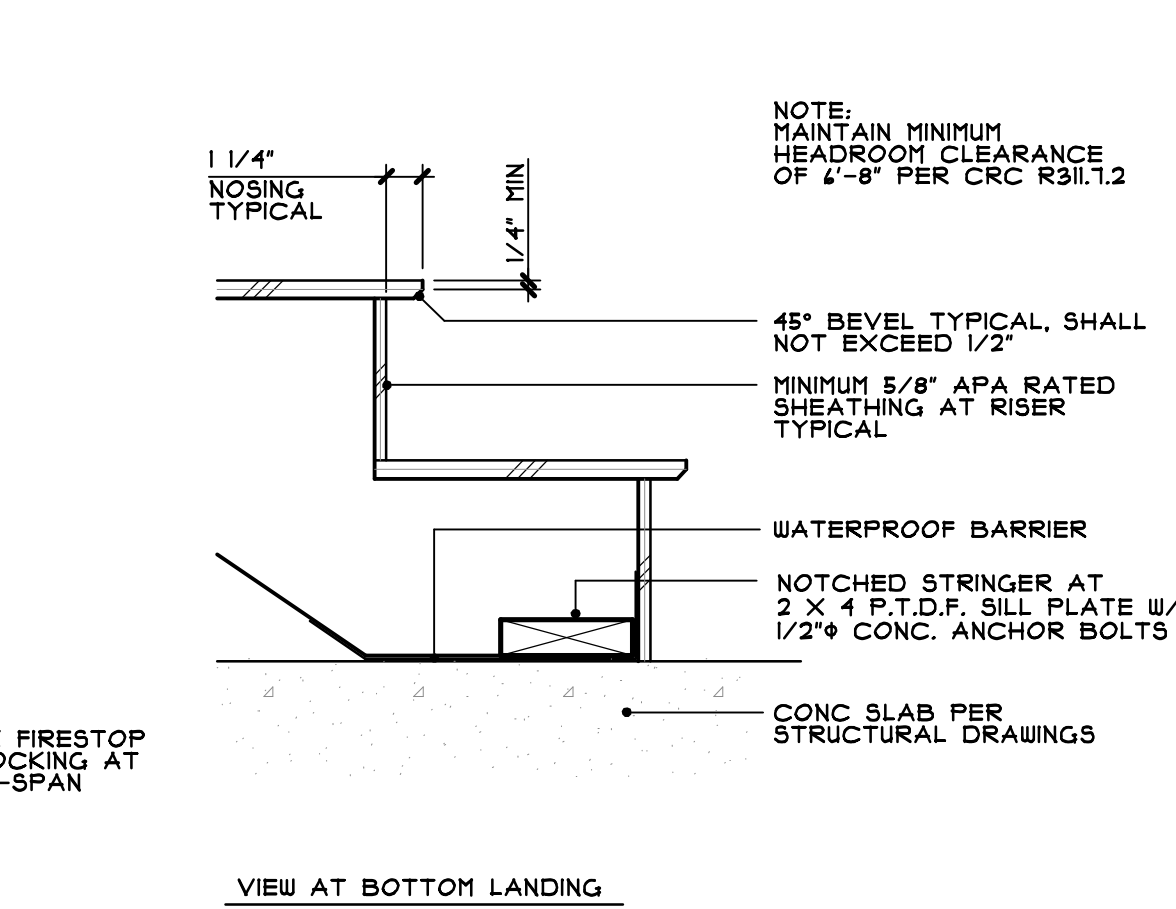
E GAS B-VENT PENETRATION AT WALL

SCALE: 1 1/2" = 1'-0"

- NOTE: MAXIMUM VERTICAL HEIGHT BETWEEN LANDINGS SHALL NOT EXCEED 12'-0"
- LANDING DEPTH (MINIMUM EQUAL TO WIDTH OF STAIRWAY PER CRC R301.1.2)
- TREAD PER PLAN (MINIMUM 10")
- 1 1/4" NOSING TYPICAL
- 45° BEVEL TYPICAL SHALL NOT EXCEED 1/2"
- MINIMUM 5/8" APA RATED SHEATHING AT RISER TYPICAL
- WATERPROOF BARRIER
- NOTCHED STRINGER AT 2 X 4 P.T.D.F. SILL PLATE W/ 1/2" CONC. ANCHOR BOLTS
- CONC SLAB PER STRUCTURAL DRAWINGS
- 2 X FIRESTOP BLOCKING AT MID-SPAN
- VIEW AT TOP LANDING
- VIEW AT BOTTOM LANDING

F TYPICAL STAIR

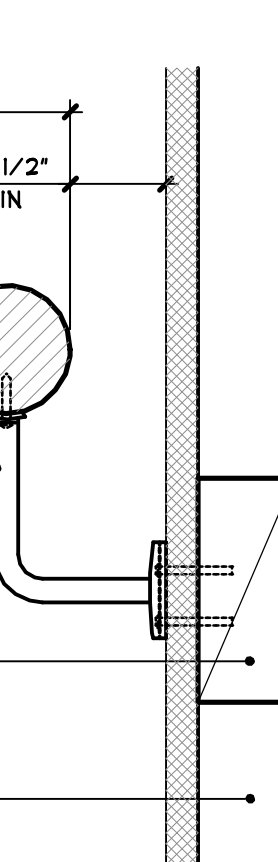
SCALE: 1 1/2" = 1'-0"



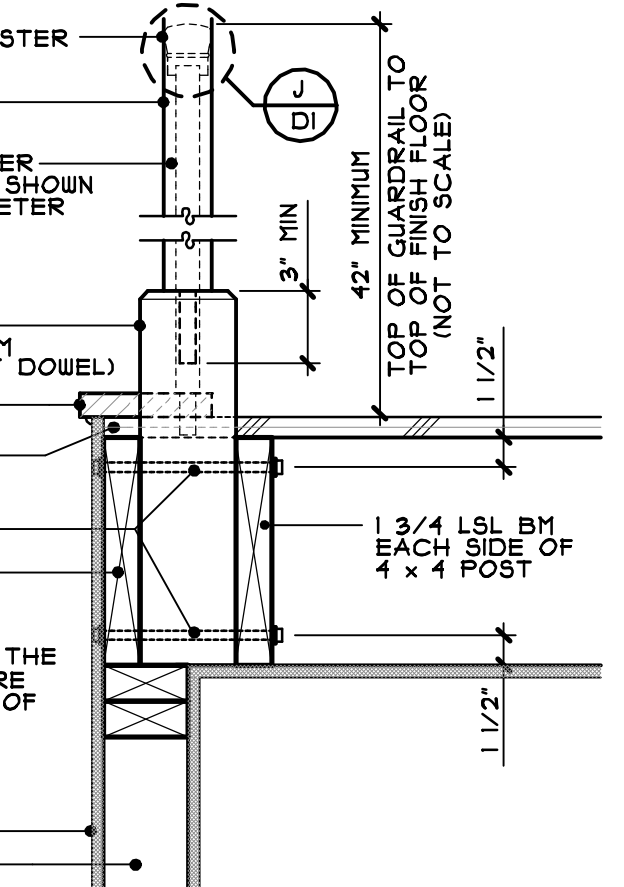
- NOTE: SHAPE, MATERIAL AND ASSEMBLY OF HANDRAIL SHALL COMPLY WITH CURRENT SECTION SELECTION OF HANDRAIL PER OWNER.
- NOTE: HANDRAIL MUST COMPLY WITH CRC R301.1.8
- PRE-FABRICATED HANDRAIL (PER OWNER'S SPECIFICATIONS) (MUST COMPLY WITH DIMENSIONS AS SHOWN (ATTACH PER MANUFACTURER'S INSTALLATION INSTRUCTIONS))
- PRE-FABRICATED METAL BRACKET WITH BRACKET SADDLE, BASE FLANGE AND SNAP-ON FLANGE COVER (ATTACH PER MANUFACTURER'S INSTALLATION INSTRUCTIONS)
- 2 X NAILER
- 1 1/4" MIN TO 2" MAX
- 1 1/2" MIN
- 2'-10" MINIMUM TO TOP OF HANDRAIL TO TOP OF STAIR TREAD NOSING
- TYPICAL WALL FRAMING PER STRUCTURAL DRAWINGS

G INTERIOR HANDRAIL ATTACHMENT

SCALE: 4" = 1'-0"



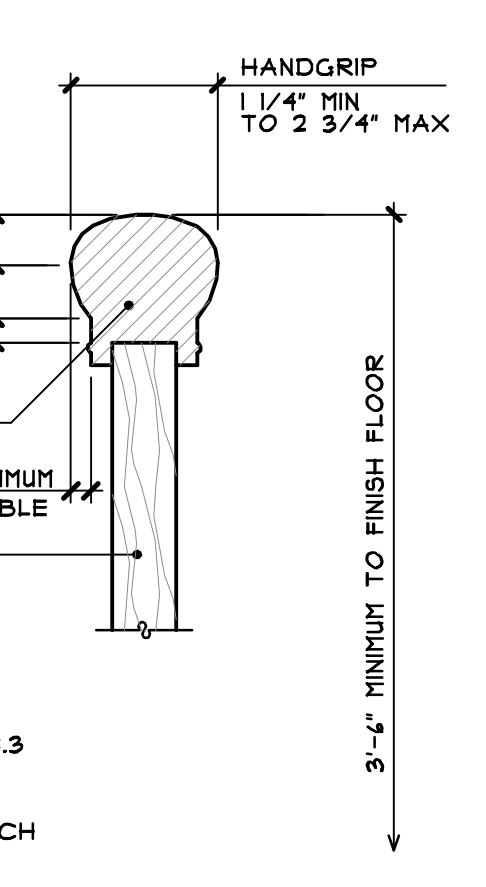
- PRE-FAB WOOD GUARDRAIL CAP AT BALUSTER BEYOND (PER OWNER'S SPECIFICATIONS)
- DECORATIVE WOOD NEWEL (PER OWNER'S SPECIFICATIONS) WITH DOWEL AS SHOWN
- DECORATIVE WOOD BALUSTER BEYOND (PER OWNER'S SPECIFICATIONS) WITH DOWEL AS SHOWN
- SPACE BALUSTERS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS THROUGH
- 4 X 4 TURNED NEWEL POST BASE (IF #1 MINIMUM) AT 48" ON CENTER MAXIMUM (PRE-DRILL & FILL WITH WOOD GLUE TO FIT DOWEL)
- 1 X TRIM WITH QUARTER ROUND BELOW
- PLYWOOD SUBFLOOR PER STRUCTURAL (NOTCH AROUND POST BASE AS REQ'D)
- (2) 5/8" BOLTS WITH WASHERS EACH END
- RIM JOIST (AS OCCURS)
- NOTES: GUARDRAIL SHALL BE MOUNTED SO THAT THE COMPLETED RAIL & SUPPORTING STRUCTURE ARE CAPABLE OF WITHSTANDING A LOAD OF 50 LB. INTERMEDIATE RAILS AND CONNECTIONS MUST WITHSTAND A LOAD OF 50 LBS PER SQUARE FOOT MINIMUM GUARDRAIL TO COMPLY WITH CRC R302.1
- GYPSUM BOARD PER PLAN TYPICAL
- WALL FRAMING PER STRUCTURAL DUGS



H INTERIOR GUARDRAIL POST CONNECTION

SCALE: 1 1/2" = 1'-0"

- NOTE: SHAPE, MATERIAL AND ASSEMBLY OF GUARDRAIL SHALL COMPLY WITH CODE SECTIONS ILLUSTRATED IN THIS DETAIL SELECTION OF GUARDRAIL PER OWNER.
- 3/4" MAX FROM HIGHEST POINT TO START OF FINGER RECESS
- 1/8" MAX FROM RECESS START TO FINISH DEPTH
- MAINING DEPTH FOR A MINIMUM 3/8"
- PRE-FAB WOOD GUARDRAIL CAP AT BALUSTER BEYOND (PER OWNER'S SPECIFICATIONS)
- WOOD BALUSTER (PER OWNER'S SPECIFICATIONS) WITH DOWEL AS SHOWN (INSTALL PER MANUFACTURER'S SPECIFICATIONS) SPACE BALUSTERS SUCH THAT A 4 INCH DIAMETER SPHERE CANNOT PASS THROUGH
- NOTES: GUARDRAIL TO COMPLY WITH SECTION CRC R301.1.8.3
- FINGER RECESS IS REQUIRED ON BOTH SIDES.
- ALL EDGES TO HAVE A MINIMUM RADIUS OF 0.01 INCH



J GUARDRAIL CAP

SCALE: 4" = 1'-0"

K NOT USED

L NOT USED

M NOT USED

DATE
5/20

DRAWN BY:
CHECKED BY:
REVISIONS: DATE:
PLAN CHECK
1-2-20

NOTES

DESIGN FOR

SHEET JOB NO

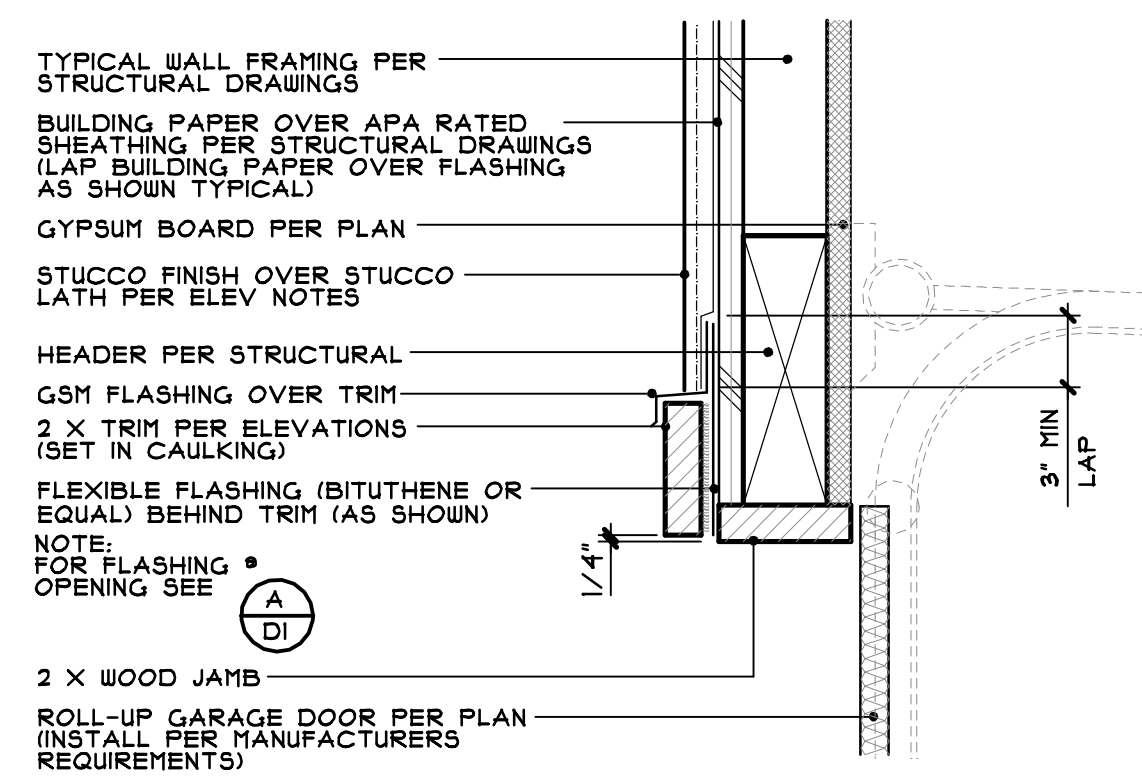
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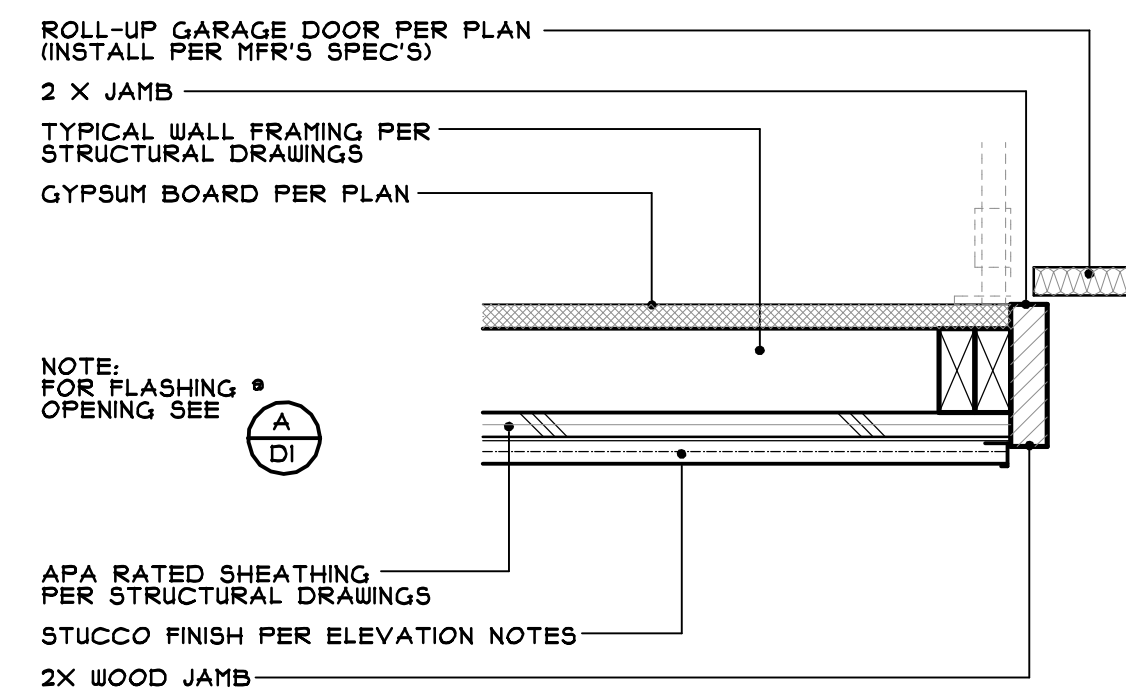
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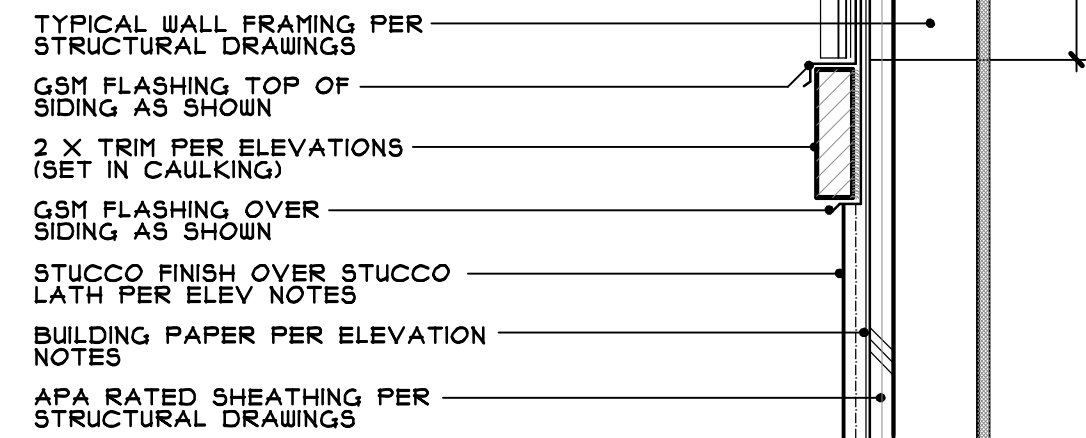
MIGUEL ESCUTIA
3719 PAXTON PLACE
SANTA ROSA, CALIFORNIA



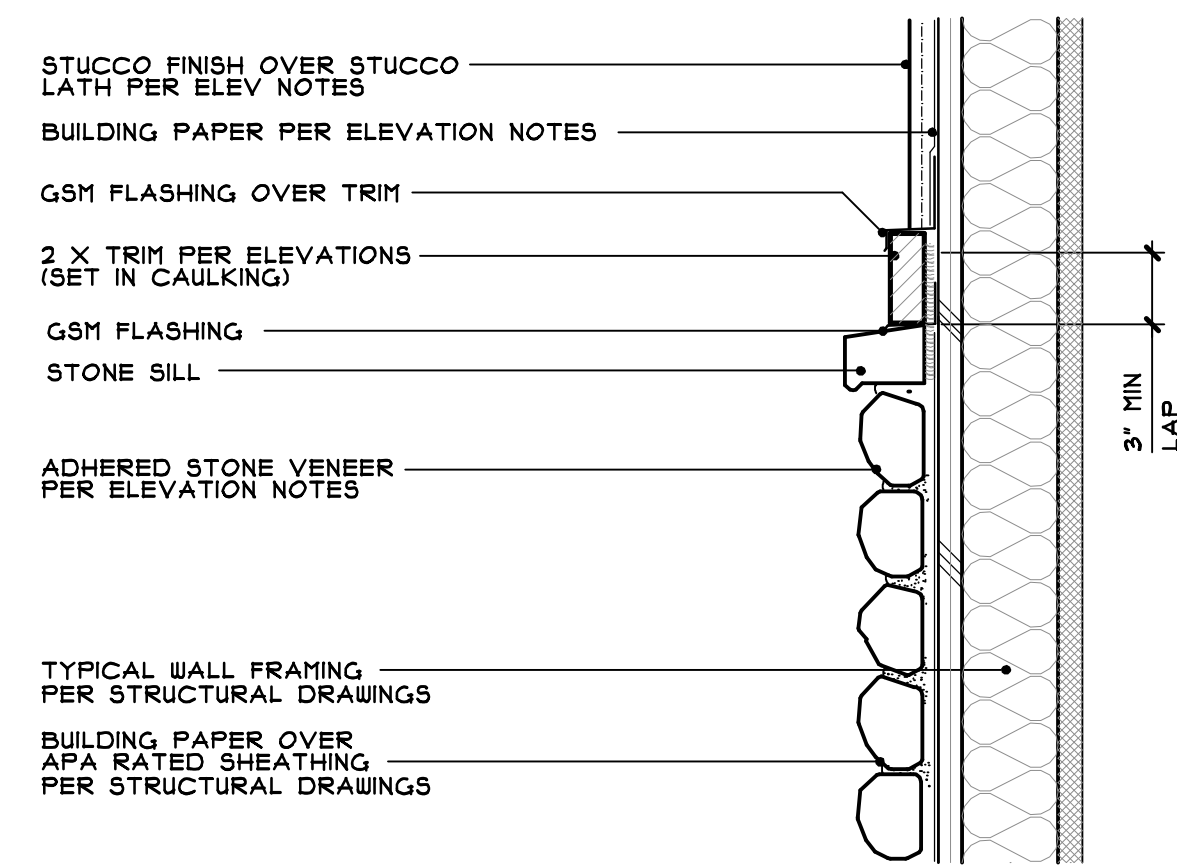
A HEAD AT GARAGE DOOR
SCALE: 1 1/2" = 1'-0"



B JAMB AT GARAGE DOOR
SCALE: 1 1/2" = 1'-0"

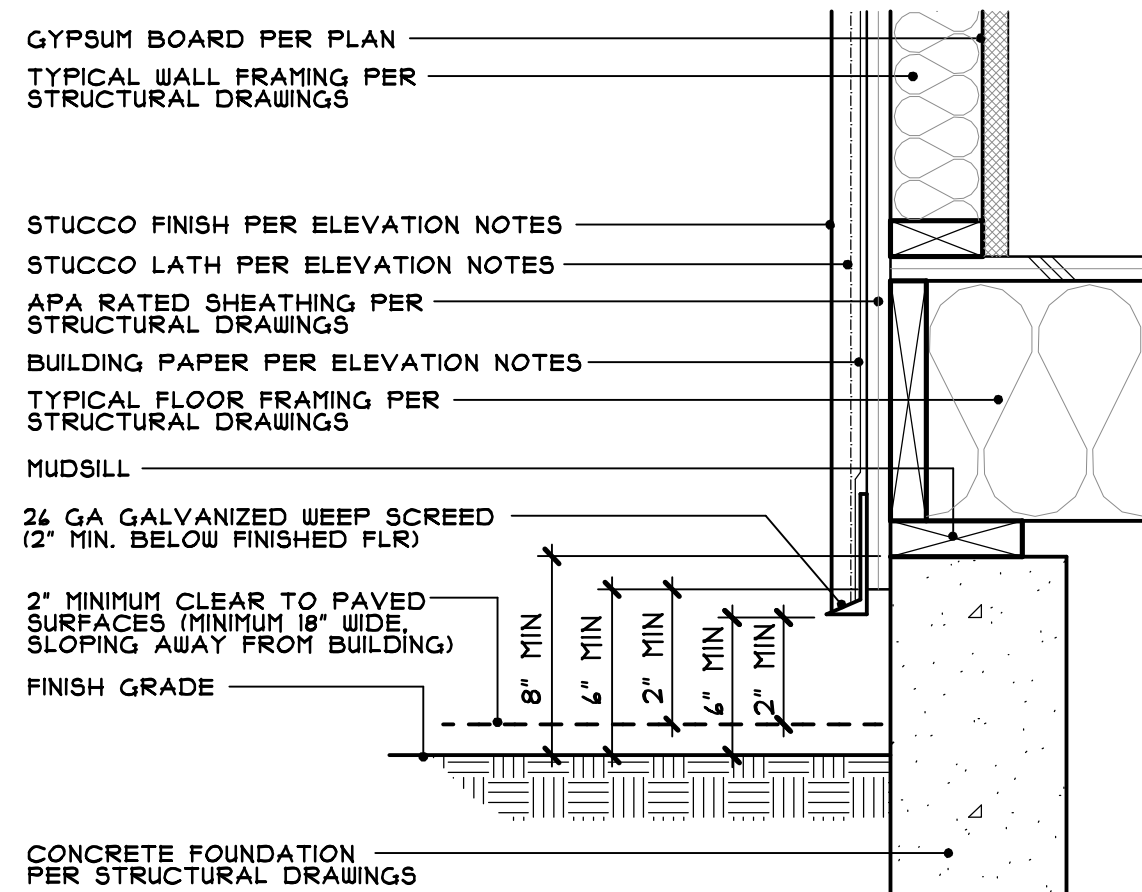


C TRIM AT HORIZONTAL SIDING
SCALE: 1 1/2" = 1'-0"

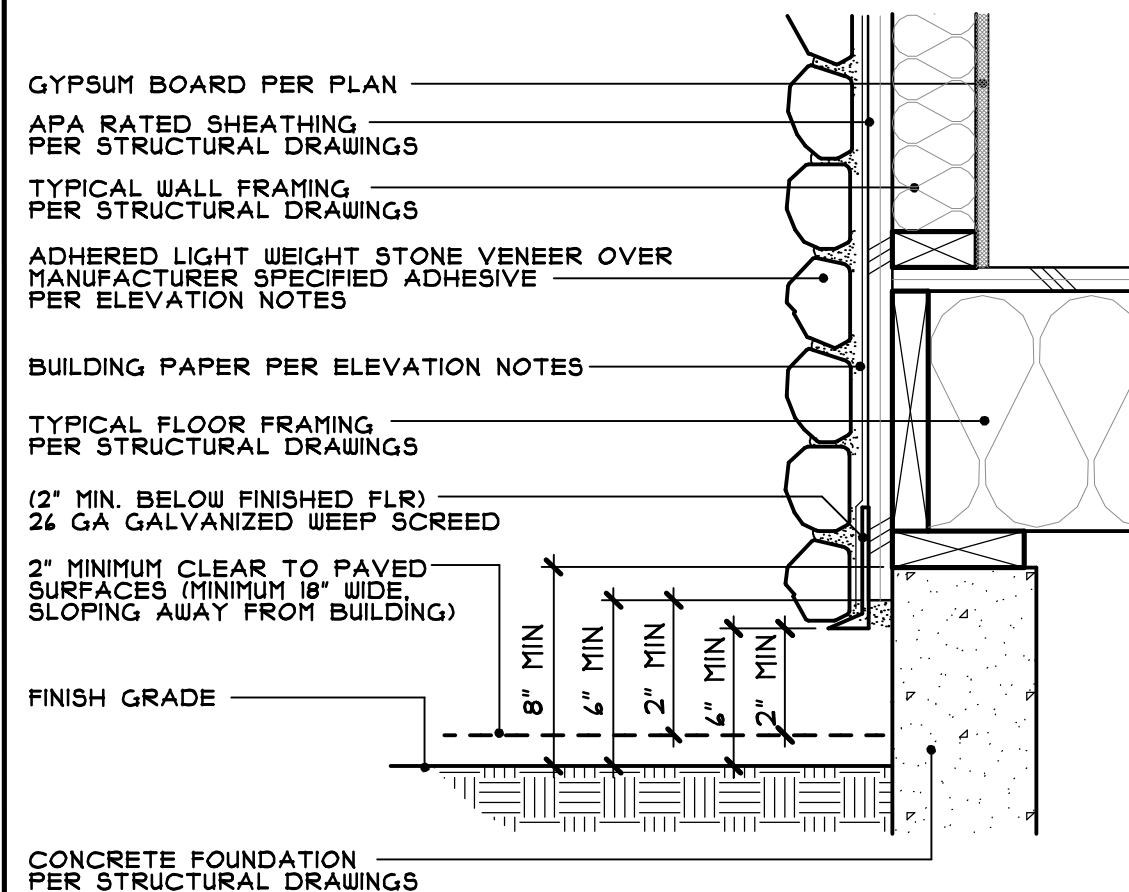


D TRIM • STONE VENEER
SCALE: 1 1/2" = 1'-0"

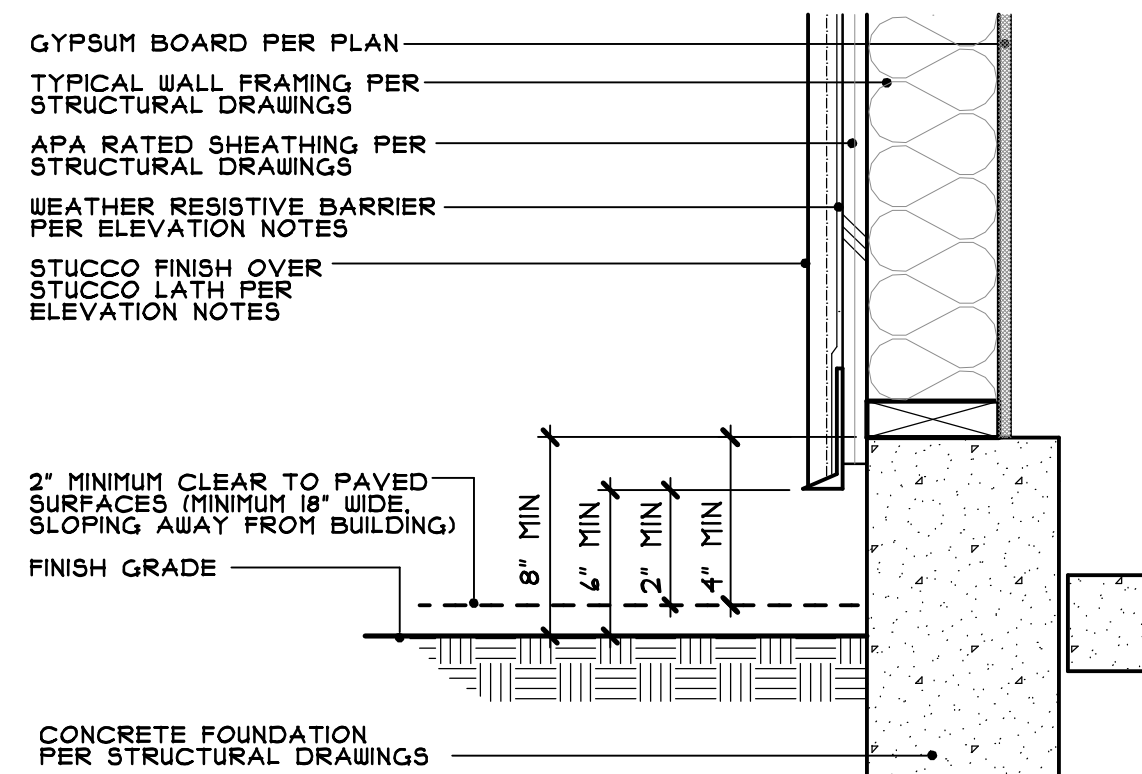
☐ NOT USED



F **TYP WEEP SCREED @ WALL BASE**
SCALE: 1 1/2" = 1'-0"



ADHERED STONE VENEER BASE
SCALE: 1 1/2" = 1'-0"



(H) WALL BASE AT SLAB
SCALE: 1 1/2" = 1'-0"

J NOT USED

(K) NOT USED

(L) NOT USED

(M) NOT USED

(N) NOT USED

Ⓟ NOT USED

Q NOT USED

Ⓜ NOT USED

⑤ NOT USED

(T) NOT USED

④ NOT USED

Y NOT USED

CERTIFICATE OF COMPLIANCE				C718-PRE-011	
Project Name: 3719 Paxton Place		Calculation Date/Time: 2020-08-13T10:24:28-07:00		Page 13 of 14	
Calculation Description: Title 24 Analysis		Input File Name: F72682P9.rds19			
IAQ INDOOR AIR QUALITY NMS					
01	02	03	04	05	06
Dwelling Unit	IAQ CFM	IAQ Wtms/CFM	IAQ Fan Type	IAQ Recovery Effectiveness (%)	IAQ Recovery Effectiveness - SHELAD Recovery Effectiveness (%)
SFm2/Average 1.1	89	0.83	balanced HRV	67	n/a

Registration Number: 420-P01006628A-200-000-0000-000-0000
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 CA Building Energy Efficiency Standards - 2019 Residential Compliance

Registration Date/Time: 08/13/2020 10:39
 Report Version: 2019.1.108
 Schema Version: rev 20200101

HHS Provider: CHERS
 Report Generated: 2020-08-13 10:27:41

CERTIFICATE OF COMPLIANCE Project Name: 3719 Paxton Place Calculation Description: Title 24 analysis		CPR-091-041 (Page 14 of 14) Calculation Date/Time: 2020-08-08 18:11:20.26-28 07:00 Input File Name: 77268279-06175	
DECLARATION STATEMENT I, <u>Anthony Nunez</u> , certify that this Certificate of Compliance Declaration is accurate and complete.			
Declaration Author Name: <u>Anthony Nunez</u> Declaration Author Title: _____ Company: <u>California Living & Energy</u> Address: _____ City: <u>ROIS Dale Court</u> State: <u>CA 95567</u> Zip: _____ Phone: _____ Email: <u>209-538-2879</u>		Declaration Author Signature: _____ Signature Date: <u>08/13/2020</u> Signature Date (if applicable): _____ Signature Identification (if applicable): _____ Phone: _____ Email: <u>209-538-2879</u>	
RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. I am a duly licensed engineer or professional consultant in the State of California. 2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations, and that the energy features and systems design features identified on the Certificate of Compliance are consistent with the applicable provisions of the California Building Energy Efficiency Standards, including, but not limited to, the applicable energy code, and the applicable energy conservation measures, standards, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.			
Responsible Designer Name: <u>Bianca Miller</u> Address: _____ City: <u>Paradise</u> and Associates State: _____ Zip: <u>416-B Street, Suite C</u> City: <u>Santa Rosa, CA 95401</u>		Responsible Designer Signature: _____ Signature Date: <u>08-13-2020</u> Title: _____ Phone: _____ Email: <u>(707) 573-3851</u>	

Digitally signed by GoGrid Home Energy Efficiency Rating System Services, Inc. (NEEDS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

Registration Number: 420-P01006226A-000-000-0000-000000 Registration Date/Time: 08/13/2020 10:39 HERS Provider: CHEERS
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CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.1.108 Report Generated: 2020-08-13 10:27:41
Schema Version: rev 20200101

CERTIFICATE OF COMPLIANCE					C19-PRD-016		
Project Name: 3719 Plantation					Calculation Date/Time: 2020-08-13T10:24:28-07:00		
Calculation Description: 2nd Flr Analysis					Input File Path: T:\2020\PRD-016\1		
ONIQUE SURFACE CONSTRUCTIONS							
01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Ceiling R-value	Interior / Exterior Centimetre R-value	U-factor	Assembly Layers
Attic Roof Garage	Attic Roof	Wood Framed Ceiling	2x4 Top Chord of Roof Truss @ 24 in. O.C.	R-0	None / None	0.034	Roofing: 1/2" roof (Asphalt Shingles) Roof Deck: Wood Siding: Sheathing (OSB) Insulation: None Finish: Drywall Inside Finish: Sheathing (OSB)
Attic Roof House	Attic Roof	Wood Framed Ceiling	2x4 Top Chord of Roof Truss @ 24 in. O.C.	R-0	None / None	0.034	Roofing: 1/2" roof (Asphalt Shingles) Roof Deck: Wood Siding: Sheathing (OSB) Insulation: None Finish: Drywall Inside Finish: Sheathing (OSB)
R-19 Raftered Floor	Floor Over Crawlspace	Wood Framed Floor	2x8 @ 16 in. O. C.	R-19	None / None	0.069	Floor Surface: Carpeted Floor Deck: Wood Siding: Sheathing (OSB) Insulation: Ceiling / Frame: R-19/24
R-0 Attic Roof	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-0	None / None	0.061	Ceiling / Frame: None / 2x4 Siding: Sheathing (OSB) Insulation: None
R-49 Attic Roof	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-49	None / None	0.02	Over Ceiling Insulation: R-49 Insul. Siding: Sheathing (OSB)
R-19 Attic Roof	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 16 in. O. C.	R-19	None / None	0.069	Over Ceiling Insulation: R-19 Insul. Siding: Sheathing (OSB)
R-19 Floor No Crawlspace	Exterior Floors	Wood Framed Floor	2x8 @ 16 in. O. C.	R-19	None / None	0.05	Floor Surface: Carpeted Floor Deck: Wood Siding: Sheathing (OSB) Ceiling / Frame: R-19/24 Inside Finish: Sheathing (OSB)

Registration Number: 420-P10102852264-020-000-00000000-0000 Registration Date/Time: 06/15/2020 10:39 HERS Provider: CHEERS
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Schema Version: rev 20200101

CERTIFICATE OF COMPLIANCE										Calculation Date/Time: 2020-08-10 17:30:24-28-07:00		CPR-199-PDF-01	
Project Name: 3719 Pavilion Place										Calculation Description: Title 24 Analysis		Input File Name: T12062709.rvt	
OPaque Surface CONSTRUCTIONS													
01	02	03	04	05	06	07	08	09	10	11	12		
Construction Name	Surface Type	Construction Type	Framing	Total Cavity Breaker	Interior / Exterior Continuous R-Value	U-factor	Assembly Layers						
01:50 No. No Crawspace - Interior	Interior Floors	Wood Framed Floor	2x6 @ 16" O. C.	R:19	None / None	0.048	Floor Surface: Carpeted Floor Deck: Wood Siding/Insulating/Sealing Gypsum / Foam R-19.2 Ceiling Below Finish: Gypsum Board						
BUILDING ENVELOPE - HERS VERIFICATION													
01	02	03	04	05	06	07	08	09	10	11	12		
Quality Insulation Installation (QI)	Quality Insulation Installation (QI)	Quality Insulation of Spray Foam Insulation	Building Envelope Air Leakage	CFM50									
Not Required		Not Required	Not Required	n/a									
WATER HEATING SYSTEMS													
01	02	03	04	05	06	07	08	09	10	11	12		
System	System Type	Distribution Type	Water Heating Source (H)	Solar Heating System	Compact Distribution	HERS Verification							
Domestic Hot Water (DHW)	Domestic Hot Water (DHW)	Standard Distribution System	UEF 0.55 Tankless (H)	n/a	None	n/a							
WATER HEATING SYSTEMS													
01	02	03	04	05	06	07	08	09	10	11	12		
Name	Heating Equipment	Tank Type	# Units	Tank Size (L)	Energy Factor or Efficiency	Input Rating (kW)	Tank Insulation R-Value (H/Fat)	Standalone or Recovery Eff.	UEF or Rating or Flow Rate	NEEA Heat Pump Brand or Model	Tank Location or Ambient Condition		
UEF 0.55 Tankless	Gas	Consumer Insulation	1	0	0.95-UEF	200000 Btu/hr	0	n/a	n/a				

CERTIFICATE OF COMPLIANCE										C131-PW-016	
Project Name: 3715 Paxton Place										Calculation Date/Time: 2008-08-13T10:24:28-07:00	
Calculation Description: Title 24 analysis										Input File Name: H:\200707\06013	
WATER HEATING - HEBS VERIFICATION											
01	02	03	04	05	06	07	08	09	10	11	
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Control HWB Distribution			Shower Drain Water Heat Recovery		
DHW - L21	Not Required	Not Required	Not Required	None	Not Required	Not Required			Not Required		
SPACE CONDITIONING SYSTEMS											
01	02	03	04	05	06	07	08	09	10	11	
Name	System Type	Heating Unit Name	Cooling Unit Name	Fan Name	Distribution Name	Required, min	Required, max	Verified Condition	Heating Efficiency Count	Cooling Efficiency Count	
PVAC	Heating and cooling system - unit	Furnace 35	Split 16/13	PVAC Fan	Ducts	Setback	None	NA	1	1	
PVAC: HEATING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Heating Efficiency								
Furnace 35	Central gas furnace	1	At 95%								
PVAC - COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											
01	02	03	04								
Name	System Type	Number of Units	Efficiency EER								
Split 16/13	Central AC	1	13								
PVAC: COOLING UNIT SYSTEMS											

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CERTIFICATE OF COMPLIANCE Project Name: 3719 Plaxton Place Calculation Description: T16 2x Analysis CFR-P99-016 (Page 12 of 14)											
HWAC DISTRIBUTION SYSTEMS Calculation Date/Time: 2020-08-18 13:20:47-07:00 Input File Name: T16 2xAnalysis-06019											
01	02	03	04	05	06	07	08	09	10	11	12
Name	Type	Design Type	Supply	Return	Duct Location	Surface Area	Supply	Return	Region Duct	Duct Leakage	HEMS Verification
Ducts	Unconditioned attic	Non-Verified	R-0	R-0	Attic	Attic	N/A	N/A	No Regions	Sealed and Tested	Ducts heri-
HWAC DISTRIBUTION - HEMS VERIFICATION											
01	02	03	04	05	06	07	08	09			
Name	Duct Leakage Verification	Duct Leakage Test (%)	Verified Duct Location	Verified Duct	Buried Ducts	Densely Buried Ducts	Low-leakage Air Handler	Use Leakage Ducts Entering in Conditioned Space			
Ducts heri-	Yes	5.0	Not Required	Not Required	Not Required	Credit not taken	Required	No			
HWAC FAN SYSTEMS											
01	02	03	04								
Name	Type	Fan Power (Watts/CFM)									
HWAC Fan	HWAC Fan	0.65	HWAC Fan-Pairs Fan								
HWAC FAN SYSTEMS - HEMS VERIFICATION											
01	02										
Name	Required	Verified Fan Watt Draw									
HWAC Fan-Pairs Fan	Required	0.45	Required Fan (Watts) (Watts/CFM)								

Registration Number: 420-P010094226A-010-000-01000000-0000 Registration Date/Time: 06/18/2020 10:39 HERS Provider: CHEERS
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CERTIFICATE OF COMPLIANCE Project Name: 3713 Pavilion Place Calculation Description: Title 24 Analysis				Calculation Date/Time: 2020-08-18T10:24:26-07:00 Input File Name: T24CERT01.DAT				CFLP-001-011 [Page 5 of 11]					
CONQUA SURFACES													
01	02	03	04	05	06	07	08	09	10	11	12		
Name	Zone	Construction	Altitude	Orientation	Gross Area (ft ²)	Window and Door Area (ft ²)	Ratio (ft ² /ft ²)						
Roof	1st Floor	R-40 Asph Roof	n/a	n/a	200	n/a	0.00						
Roof	Garage	R-20 Asph Roof	n/a	n/a	12	n/a	0.00						
Floor Over Exterior	2nd Floor	R-13 Floor No Crawlspace	n/a	n/a	87	n/a	0.00						
Floor Over Crawlspace	1st Floor	R-13 Railed Floor	n/a	n/a	1263	n/a	0.00						
Floor Over Crawlspace	2nd Floor	R-13 Floor No Crawlspace	n/a	n/a	1263	n/a	0.00						
Floor Over Garage	1st Floor	R-10 Floor	n/a	00	120	n/a	0.00						
Front Wall - Garage	R-0 Wall	0.0 Wall	180	East	235	120	0.51						
Left Wall - Garage	R-0 Wall	0.0 Wall	180	Left	235	210	0.90						
Right Wall - Garage	R-0 Wall	0.0 Wall	0	Right	57	0	0.00						
ATTC													
01	02	03	04	05	06	07	08	09	10	11	12		
Name	Construction	Type	Roof Rise (in 12)	Roof Reflectance	Roof Emittance	Radiant Barrier	Yes	No	Cool Roof				
Attic House	Attic Roof House	Ventilated	6	0.1	0.85	Yes		No					
Attic Garage	Attic Roof Garage	Ventilated	6	0.1	0.85	No		No					
FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Altitude	Width (ft)	Height (ft)	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading	
2-3030 FX	Window	Front 2nd Wall	Front	90	3	3	2	18	0.3	NFRC	0.23	NFRC	Shade Screen
4-8000 FX	Window	Front 2nd Wall	Front	90	3	3	2	18	0.3	NFRC	0.23	NFRC	Shade Screen
3-2020 FX	Window	Left 2nd Wall	Left	180	2	2	3	12	0.3	NFRC	0.23	NFRC	Shade Screen
2-2040 DQ	Window	Left 2nd Wall	Left	180	2	4	2	16	0.3	NFRC	0.23	NFRC	Shade Screen
2-2050 DQ	Window	Back 2nd Wall	Back	270	2.5	3	2	15	0.3	NFRC	0.23	NFRC	Shade Screen
2-2050 DQ	Window	Back 2nd Wall	Back	270	2.5	3	2	15	0.3	NFRC	0.23	NFRC	Shade Screen

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PROJECT INFORMATION & COMPLIANCE													
Project Name: 3739 Paxton Place													
Calculation Description: Title 24 Analysis													
Calculation Date/Time: 2025-08-13T10:24:28-07:00													
Input File Name: 71268279r025													
PENETRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Area (sq ft)	Width (ft)	Height (ft)	U-factor	U-factor	U-factor	SHGC	SHGC	SHGC	SHGC
1.5050 F1	Window	Back 2nd Wall	Back	270.0	5	1	2.5	0.3	NFRC	0.23	NFRC	0.23	Back Screen
2.3520 Opp 2	Window	Right 2nd Wall	Right	0	2.5	5	2	25	0.3	NFRC	0.23	NFRC	Back Screen
3.1637 F3	Window	Right 2nd Wall	Right	0	3	3	1	9	0.3	NFRC	0.23	NFRC	Back Screen
3.1622 F3	Window	Right 2nd Wall	Right	0	3	1	18	0.3	NFRC	0.23	NFRC	0.23	Back Screen
3.2000 Opp 2	Window	Front 2nd Wall 2	Front	90	3	6	2	36	0.3	NFRC	0.23	NFRC	Back Screen
3600 Entry Door F2	Window	Front 2nd Wall 2	Front	90	1	28	0.3	NFRC	0.23	NFRC	0.23	NFRC	Back Screen
2.2020 Opp 3	Window	Left 2nd Wall 2	Left	180	2.5	5	2	25	0.3	NFRC	0.23	NFRC	Back Screen
3.1600 F2	Window	Back 2nd Wall 2	Back	270.0	5	1	2.5	0.3	NFRC	0.23	NFRC	0.23	Back Screen
3.2420 Opp 3	Window	Back 2nd Wall 2	Back	220.0	2.5	3	3	37.5	0.3	NFRC	0.23	NFRC	Back Screen
3.1500 F1 F2	Window	Back 2nd Wall 2	Back	270.0	5	1	2.5	0.3	NFRC	0.23	NFRC	0.23	Back Screen
3.1600 F2	Window	Back 2nd Wall 2	Right	0	3	8	1	24	0.3	NFRC	0.23	NFRC	Back Screen
3.2000 F2	Window	Right 2nd Wall 2	Right	0	3	2	12	0.3	NFRC	0.23	NFRC	0.23	Back Screen
3.2000 F2 X	Window	Right 2nd Wall 2	Right	0	12	2	3	12	0.3	NFRC	0.23	NFRC	Back Screen
DRAPED DOORS													
01	02	03	04										
Name	Side of Building	Area (sq ft)	U-factor										
Garage Interior Door	Garage	21	0.2										
10000 Garage Garage	Front Wall - Garage	108	1										
Garage Door	Left Wall - Garage	21	1										

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CERTIFICATE OF COMPLIANCE										Calculation Date/Time: 2023-08-13T10:24:28-07:00																																													
Project Name: 3719 Paxton Place										Input File Name: TF\240207\B013																																													
Calculation Description: Title 24 Analysis										Page 8 of 413																																													
OVERLAYS AND FITS																																																							
01		02		03		04		05		06		07		08		09		10		11		12		13		14																													
Window				Depth				Overhang				Right eave				Flap Min.				Depth				Top up				Dist L				Bot up				Depth				Top up				Dist R				Bot up							
3-2020 FR 2				1				1.5				0				0				0				0				0				0				0				0				0				0				0			
SLAB FLOORS																																																							
01		02		03		04		05		06		07		08		09		10		11		12		13		14																													
Name				Zone				Area [Sq]				Perimeter [ft]				Edge Min. h-value and Depth				Corrupted Fraction				Heated																															
Stdb-on-Garage				Garage				508				52				None				0%				No																															
OPAQUE SURFACE CONSTRUCTIONS																																																							
01		02		03		04		05		06		07		08																																									
Construction Name		Surface Type		Construction Type		Framing		Total Cavity h-value		Interior / Exterior Continuous h-value		U-factor		Assembly Labels																																									
R-0 Wall		Exterior Walls		Wood Framed Wall		2x6 @ 16 in. O. C.		R-0		None / None		0.363		Inside Finish: Gypsum Board Cavity / Frame: 0-21 / 2x6 Exterior Finish: 1-Cor Sillco																																									
R-21 Wall		Exterior Walls		Wood Framed Wall		2x6 @ 16 in. O. C.		R-21		None / None		0.059		Inside Finish: Gypsum Board Cavity / Frame: R-13 / 2x6 Exterior Finish: 1-Cor Sillco																																									
R-21 Wall - Siding		Exterior Walls		Wood Framed Wall		2x6 @ 16 in. O. C.		R-21		None / None		0.066		Inside Finish: Gypsum Board Cavity / Frame: R-13 / 2x6 Exterior Finish: Wood Siding/Insulating Sheathing																																									
R-21 Wall - Interior		Interior Walls		Wood Framed Wall		2x6 @ 16 in. O. C.		R-21		None / None		0.064		Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Other Side Finish: Gypsum Board																																									

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CERTIFICATE OF COMPLIANCE		Project Name: 3719 Paxton Place		Calculation Date/Time: 2020-08-13T10:28:00-07:00		C191-PPE-011	
Calculation Description: This 2d Analysis		Project Location: 3719 Paxton Place		Input File Name: 71363799-0a1d19		(Page 1 of 4)	
GENERAL INFORMATION							
01	Project Name	3719 Paxton Place	05	Standards Version	2019		
02	Run Title	Title: 2d Analysis	06	Software Version	CECCE-BC 2019.1.2		
03	Project Location	3719 Paxton Place	07	Front Orientation (deg/ Cardinal)	90		
04	City	San Jose	08	Number of Sleeping Units	1		
05	ZIP code	95041	09	Number of Bedrooms	4		
06	Climate Type	C	10	Number of Stories	2		
07	Climate Zone	Climate Zone	11	Number of Units	1		
12	Project Scope	Construction	12	Number of Bedrooms	4		
14	Addition Cond. Floor Area (SF)	0	15	Number of Stories	2		
16	Existing Cond. Floor Area (SF)	0	17	Penetration Airflow Factor (3)	3		
18	Total Cond. Floor Area (SF)	0	18	Glazing Percentage (W) (2)	85%		
19	ADD Redwood Count (sq ft)	0	21	ADD Conditioned Floor Area (sq ft)	0		
22	is Natural Gas Available?						
COMPLIANCE RESULTS							
01	Building Complies with Computer Performance						
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC approved HERS provider.						
03	This building incorporates one or more Special Features shown below						

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PROJECT DETAILS OF COMPLIANCE Project Name: 3719 Pavilion Place Calculation Date/Time: 2024-08-08 13:10:24-28-07:00		CFR-98 (Page 41) Input File Name: 17268379-66175		
ENERGY DESIGN RATING				
	Energy Design Totals		Compliance Margins	
	Efficiency¹ (EER)	Total² (EER)	Efficiency¹ (EER)	Total² (EER)
Standard Design	46	46		
Proposed Design	45.9	45.9	0.1	0.1
REMARKS: COMPLIES				
1. Efficiency EER includes improvements to the building envelope and more efficient equipment. 2. Total EER includes efficiency and demand response measures such as photovoltaic (PV) systems and batteries. 3. Building complies when efficiency and total compliance margins are greater than or equal to zero.				
• Standard Design PV Capacity: 0.00 MWdc • PV Systems (removed due to Induced PV Requirement of 0. MWdc).				
ENERGY USE SUMMARY				
Energy Use (kWh/1000³/yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating	20.45	19.68	0.76	3.7
Space Cooling	7.62	7.18	1.48	23.7
IAQ Ventilation	6.60	6.60	0	0
Water Heating	19.91	9.6	1.31	19
Sell Utilization Credit	-0.9	0	0	0
Compliance Energy Total	45.97	45.78	0.19	0.4

Registration Number: 420-P01008226A-000-000-0000-0000 Registration Date/Time: 08/13/2020 10:39 HERS Provider: CHEERS
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CERTIFICATE OF COMPLIANCE				Project Name: 3712 Parcel Plan				Calculation Date/Time: 2020-09-13T10:24:28-07:00				C19 PR 01-14	
Project Name: 3712 Parcel Plan				Calculation Description: Table 2.4 Analysis				Input File Name: 1724397PR-01.D3				Page 3 of 14	
REQUIRED PV SYSTEMS: UNIMPLIFIED													
01	02	03	04	05	06	07	08	09	10	11	12		
DC System Type (kW/m2)	Exception	Module Type	Array Type	Power Electronics	CPI	Armshft (deg)	Tilt Pattern	Array Angle (deg)	Tilt (x to 12)	Inverter Eff (%)	Annual Solar Access (%)		
0	40-57% Designated energy area	Standard	Fixed (roof mount)	none	true		n/a	n/a	n/a	n/a			
REQUIRED SPECIAL FEATURES													
The following are features that must be installed in compliance for meeting the modeled energy performance for this computer analysis.													
- Indoor air quality, balanced fan - Cooling fan high level of insulation - Window overhangs and/or film													
HEAVY FEATURE SUMMARY													
The following are features that must be hard verified by a certified HE Rater in a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the listing tables below. Registered CP2s and CP3s are required to be completed in the HE6 Registry.													
- Indoor air quality ventilation - Electricity usage load													
Cooling System Verifications:													
- Minimum Airflow - Verified EER - Verified SEER													
Verified Refrigerant Charge													
Eqs Efficiency: Manual/CPU													
- Control System - None													
HVAC Distribution System Verifications:													
- Duct leakage testing - Low leakage													
Domestic Hot Water System Verifications:													

Registration Number: 420-P01068216A-000-000-000000-0000 Registration Date/Time: 08/13/2020 10:39 HERS Provider: CHEERS
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CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.1.108 Report Generated: 2020-08-13 10:27:41
Schema Version: new 2020/01/01

CERTIFICATE OF COMPLIANCE				Calculation Date/Time: 2020-08-08 17:20:28 (07:00)				C18-PR 00-11	
Project Name: 3719 Paxton Place				Calculation Description: 2018 2nd analysis				Page 4 of 14	
Input File Name: 17260097.dwg									
BUILDING FEATURES INFORMATION									
01	02	03	04	05	06	07			
Project Name	Conditioned Floor Area (m ²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Control Zones	Number of Water Heating Systems			
3719 Paxton Place	2082	1	4	2	0	1			
ZONE INFORMATION									
01	02	03	04	05	06	07			
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (m ²)	Avg. Ceiling Height	Water Heating System	Water Heating System 2			
Conditioned	Conditioned	HVAC	154.9	7	CHW	N/A			
1st floor	Conditioned	HVAC	126.5	10	CHW	N/A			
ONIQUE SURFACES									
01	02	03	04	05	06	07	08		
Name	Zone	Construction	Admthm	Orientation	Gross Area (m ²)	Windows and Door Area (m ²)	Tilt (deg)		
Front 2nd Wall	2nd Floor	R-21 Wall	90	Front	360	74	0		
Left 2nd Wall	2nd Floor	R-21 Wall	180	Left	396	28	90		
Back 2nd Wall	2nd Floor	R-21 Wall	270	Back	504	80	270		
Right 2nd Wall	2nd Floor	R-21 Wall	0	Right	396	52	90		
Front 2nd Ceiling	2nd Floor	R-21 Ceiling	90	Front	130	64	90		
Front 2nd Wall 2	1st Floor	R-21 Wall	90	Front	130	64	90		
Front 2nd Wall 2 - Siding	1st Floor	R-21 Wall - Siding	90	Front	0	0	90		
Left 2nd Wall 2	1st Floor	R-21 Wall	180	Left	141	25	90		
Back 2nd Wall 2	1st Floor	R-21 Wall	270	Back	200	118.5	270		
Right 2nd Wall 2	1st Floor	R-21 Wall	0	Right	520	29	90		
Garage Wall	1st Floor-Garage	R-21 Wall - Interior	n/a	n/a	389	21	n/a		
Roof	2nd Floor	R-49 Attic Roof	n/a	n/a	3388	n/a	n/a		
RAU Platform	2nd Floor	R-13 Attic Roof	n/a	n/a	50	n/a	n/a		

Registration Number: 420-P010068226A-000-000-00000000-0000 Registration Date/Time: 08/13/2020 10:39 HERS Provider: CHEERS
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CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.1.108 Report Generated: 2020-08-13 10:27:41
Schema Version: rev 20200101

8/15/2023		Job#23421-AN		CONSERVATION FOR THE CALIFORNIA LIFESTYLE			
Jill Farrell Farrell Faber & Associates, Inc. 418 E. 8th, Suite C Santa Rosa, CA 95401 707-578-3811 CABC-CC-Res 2019 1.2		Earth Fasting Climate Zone 2		 CL&E <i>A Division of Williams & Associates</i> 1001 N. 1st Street, Suite 200, Santa Rosa, CA 95401 Tel: 707-578-3811 Fax: 707-578-3812 cell: 707-578-3813			
Re: 3719 Placation Place in Santa Rosa, CA		2019 Code Compliance					
Envelope	Photovoltaic	N/A					
	Battery Capacity	N/A					
	Earth Fasting	2019					
	Plan (Shroon/Building Finish)	2019					
	File Number	FF-2020029					
	Square Footage	3632					
	% Above Code	0.4%					
	% Cooling Improvement	-23.7%					
	Number of Stories						
	Ceiling Percentage						
Reflectance	Roofing Material	Asphalt					
	Reflectance/Emissance	0.10/0.85					
	Exterior Floor**	R-149					
	Attic Below Roof Deck						
	Radiant Barrier	Yes					
	Wall 2x4						
	Wall 2x6	R-21					
	Knee Wall						
	Floor Over Garage/Exterior	R-19					
	Slab Floor/Slab	R-19					
HVAC	Minimum SEER/EER Value	13.0/13.0					
	Minimum AFUE	0.95					
	Duct Insulation	R-6.0					
	Whole House Load (CFM)	R-2.0					
	Fan Wattage (W/CFM)						
	Airflow (CFM)	Yes (20)					
	Duct Testing Required	Yes (0.5%)					
	Indoor Air Quality (CFM)	Yes (60 HEV)					
	Kitchen Range Hood	Yes					
	Refrigeration Charge	Yes					
SEER	SEER Verification	Yes					
	Whole House Fan Verification	Yes					
	Infiltration (CFM)						
	Ducts in Conditioned Space	Yes					
	Low Leakage for Handles						
	Burned Ducts						
	Surface Area						
	Insulation Inspector**						
	Fuel Type	Natural Gas					
H.Q.	Unlabeled Energy Factor (Gas)	0.95(60)					
	Distribution	Standard					

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Er & Assoc
B Street, Suite C
La Rosa, CA 95401
707-579-3811

CONSERVATION FOR THE CALIFORNIA LIFESTYLE

**CALIFORNIA
LIVING & ENERGY**



Title 24 Compliance - Residential/Non-Residential

A Division of William Lilly & Associates, Inc.

Ceres, CA 209-538-2879
Tel Free: 800-498-4110
Fax: 209-538-2885
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Be a Builder and/or Subcontractor detected in an agency from

Farrell Faber & Associates, Inc.
416 B Street, Suite C
Santa Rosa, CA 95401
707-579-3811

REVISIONS		
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no.	date	remarks
AUTHOR:		AN
DATE:		8/13/20
JOB NO:		23421
SHEET TITLE		

NOTE: The loads shown are only one of the criteria affecting the selection of HVAC equipment. Other relevant design factors such as airflow requirements, outdoor design temperatures, coil sizing, availability of equipment, oversizing safety margin, etc., must also be considered. It is the HVAC designer's responsibility to consider all factors when selecting the HVAC equipment. Mechanical Contractor must warrant the installed system to meet all Energy Star requirements if applicable. The minimum size of the residential heating system is regulated by the California Building Code (CBC), Section 310.11. The CBC requires that the heating system be capable of maintaining a temperature of 70° at a distance three feet above the floor throughout the conditioned space of the building. California Living & Energy does not warrant or assume responsibility for performance or installation of any equipment labeled or attuned to on any calculation produced by California Living & Energy. Builder and all sub-contractors working on the project involving Title-24 understand and accept all aspects of the Title-24 submitted to building department pertaining to their work. All sub-contractors are responsible to contact the builder and California Living & Energy before beginning work if there is any error in any calculation that would prevent the Sub-Contractor from warranting the performance of his product which includes any Energy Star procedures.

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