

DEL PLAYA RESIDENCE - ADU

(EXISTING GARAGE CONVERSION)
6513 DEL PLAYA DRIVE
ISLA VISTA, CA

SHELTER
a r c h i t e c t u r e
u r b a n d e s i g n

MEP GENERAL NOTES

ELECTRICAL NOTES:

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2019 CALIFORNIA ELECTRICAL CODE (CEC) AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- CONTRACTOR TO FURNISH AND INSTALL ALL EQUIPMENT, MATERIALS AND FIXTURES UNLESS OTHERWISE NOTED.
- ALL ELECTRICAL EQUIPMENT AND FIXTURES SHALL BE LISTED AND APPROVED BY A RECOGNIZED TESTING LAB AND INCLUDE APPROPRIATE LABELS
- GROUNDING AND BONDING SHALL BE PER CODE
- ALL CONDUIT RUNS SHALL INCLUDE A CODE SIZED GREEN GROUND WIRE
- FEEDER CONDUCTORS SHALL BE IN CONDUIT
- CONDUCTORS SHALL BE COPPER WITH APPROPRIATE INSULATION
- CONVENIENCE OUTLETS SHALL BE LOCATED AND SPACED PER 2019 CEC 210.52. 11. WITH A RECEPTACLE REQUIRED AT ANY WALL SPACE 2' OR WIDER, NOT MORE THAN 6' FROM OPENINGS AND NOT MORE THAN 12' ON CENTER.
- ARC-FAULT CIRCUIT INTERRUPTER REQUIRED WHERE BRANCH CIRCUITS ARE MODIFIED, REPLACED OR EXTENDED THAT SUPPLY 120-V. SINGLE PHASE, 15 AND 20 AMP OUTLETS IN BEDROOMS, FAMILY ROOMS, LIVING ROOMS, DINING ROOMS, CLOSETS, AND DINING ROOMS, CLOSETS AND HALLWAYS.
- ALL OUTLETS SERVING KITCHEN COUNTERTOP SHALL BE GROUND FAULT CIRCUIT INTERRUPTER PROTECTED (GFI PER CEC 210.8(A)(1))
- KITCHEN COUNTER OUTLETS SHALL BE 4'-0" O.C. MAX. WITH NO POINT ALONG THE WALL MORE THAN 2'-0" FROM AN OUTLET (EXCEPT AT SINK) PER CEC 210-52 (C)(1)
- KITCHEN ISLANDS TO BE PROVIDED WITH AT LEAST ONE RECEPTACLE OUTLET PER CEC 210-52(C)(2)
- ALL NON-LOCKING TYPE 125-VOLT 15 & 20 AMP RECEPTACLES SHALL BE LISTED TAMPER RESISTANT 2019 CEC 406.12 EXCEPTIONS 1) THOSE MORE THAN 66" ABOVE THE FLOOR 2) PART OF A LUMINAIRE OR APPLIANCE 3) SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES THAT ARE NOT EASILY MOVED AND LOCATED WITHIN DEDICATED SPACE AND ARE CHORD AND PLUG CONNECTED AS PER CEC 400.7 OR 4) NON-GROUNDING RECEPTACLES USED FOR REPLACEMENTS AS PERMITTED IN CEC 406.4 (D)(2)(a)
- PROVIDE A MIN. OF 2 SEPARATE 20 AMP CIRCUITS TO KITCHEN PER CEC 210-52(B)
- BATHROOM RECEPTACLE OUTLETS TO BE GFI PROTECTED PER CEC 210-8(A)(6)
- PROVIDE A MIN. OF 1 SEPARATE 20 AMP CIRCUIT TO EA. BATHROOM PER CEC-10(C-3)
- GFCI TYPE OUTLETS REQUIRED IN BATHROOMS, KITCHEN COUNTERTOPS, PRIVATE GARAGES AND EXTERIOR RECEPTACLES PER 2019 CEC SECTION 210.8.

LIGHTING NOTES:

ALL NEW FIXTURES ARE TO BE HIGH EFFICACY PER 2019 TITLE 24 REQUIREMENTS PER NOTES BELOW AND ADDITIONAL NOTES THIS SHEET
THE FOLLOWING LIGHTING IS HIGH EFFICACY:
PIN BASED LINEAR FLUORESCENT, PIN BASED COMPACT FLUORESCENT, PULSE START METAL HALIDE, HIGH PRESSURE SODIUM, GU-24 (OTHER THAN LED), INSEPARABLE SOLID STATE LUMINAIRES (SSL) INSTALLED OUTDOORS OR INSEPARABLE SSL LUMINAIRES WITH COLORED LIGHT SOURCES FOR DECORATIVE PURPOSES.
THE FOLLOWING LAMPS AND LIGHT SOURCES ARE HIGH EFFICACY IF THEY ARE JOINT APPENDIX JA8-CERTIFIED:
JA-8 CERTIFIED LAMPS AND LIGHT SOURCES ARE MARKED AS 'JA8-2016' OR 'JA82016-E'. THESE FIXTURES INCLUDE: LED LUMINAIRES WITH INTEGRAL SOURCES THAT ARE CERTIFIED BY THE ENERGY COMMISSION, SCREW BASED LED LAMPS (A-LAMPS, PAR LAMPSES, ETC), PIN-BASED LED LAMPS (MR-16, AR-111, ETC) GU-24 BASED LED LIGHT SOURCES AND OTHER LUMINAIRES.

AND A DIMMER OR VACANCY SENSORS SHALL CONTROL ALL LUMINAIRES REQUIRED TO HAVE LIGHT SOURCES COMPLIANT WITH REFERENCE JOINT APPENDIX JA8

A MINIMUM OF ONE LIGHT IN BATHROOMS, LAUNDRY ROOMS, UTILITY ROOMS AND GARAGES TO BE CONTROLLED BY A MANUAL ON/AUTOMATIC OFF OCCUPANCY SENSOR - SEE PLAN BELOW FOR IDENTIFICATION OF FIXTURES THAT ARE DESIGNATED TO MEET THIS REQUIREMENT - "OOS"

PLUMBING NOTES:

- ALL NEW INDOOR & OUTDOOR WATER USE TO COMPLY WITH 2019 CALGREEN STANDARDS
- DOMESTIC HOT WATER PIPING SYSTEM SHALL BE INSULATED PER 2019 CEC SEC 150.00(C) 7.
- PRESSURE BALANCING OR THERMOSTATIC MIXING VALVES REQUIRED AT NEW SHOWERS PER CPC 420.0
- WATER HEATERS INSTALLED IN BEDROOMS AND BATHROOMS SHALL COMPLY WITH 2019 CPC SECTION 505
- ALL FIXTURES COMING INTO CONTACT WITH POTABLE WATER MUST BE LEAD FREE

PLUMBING FIXTURE REQUIREMENTS PER 2019 CALIFORNIA GREEN BLDG CODE:

- WATER CLOSETS/TOILETS: NOT TO EXCEED 1.28 GALLONS PER FLUSH
- LAVATORY FAUCETS: FLOW RATES NOT TO EXCEED 1.2 GPM @ 60 PSI
- COMBINED FLOWRATE OF ALL SHOWER HEADS SERVING A SINGLE SHOWER STALL SHALL NOT EXCEED 2.0 GPM @ 80 PSI OR DESIGNED SO THAT ONLY ONE SHOWER HEAD/ HAND HELD CAN BE USED AT A TIME
- KITCHEN FAUCET MAX FLOW RATE SHALL NOT EXCEED 1.8 GPM @ 60 PSI (MAY TEMPORARILY INCREASE THE FLOW TO ABOVE MAX. RATE BUT NOT EXCEED 2.2 GPM AT 60 PSI AND MUST DEFAULT TO A MAX FLOW F 1.8 GPM AT 60 PSI)

GAS WATER HEATER NOTES:

- PROVIDE A CAT II OR IV VENT OR TYPE B VENT W/ STRAIGHT PIPE BTWN THE OUTSIDE TERMINATION AND THE SPACE WHERE THE WATER HEATER IS INSTALLED
- A CONDENSATE DRAIN THAT IS NO MORE THAN 2" HIGHER THAN THE BASE OF THE INSTALLED WATER HEATER AND ALLOWS NATURAL DRAINING WITHOUT PUMP ASSISTANCE
- GAS SUPPLY LINE WITH A CAPACITY OF AT LEAST 200,000 BTU

HVAC NOTES:

- PROVIDE NATURAL VENTILATION A MINIMUM OF 4% OF FLOOR AREA PER CBC 1203.4.1
- BATHROOMS CONTAINING A SHOWER OR TUB SHALL BE MECHANICALLY VENTED WITH AN EXHAUST FAN OF 50 CFM, (20 CFM FOR CONTINUOUS OPERATION).
- EXHAUST FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENT SYSTEM FANS MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE.
- INTERIOR SPACES INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH ACTIVE OR PASSIVE SPACE-HEATING SYSTEMS CAPABLE OF MAINTAINING A MIN. INDOOR TEMPERATURE OF 68 DEGREES F AT A POINT 3 FEET ABOVE THE FLOOR. 2016 CBC SECTION 1204/ CRC 303.8.
- VENT DRYER TO OUTSIDE WITH 14' MAX. LENGTH INCLUDING A MAX. OF TWO 90 DEGREE BENDS.
- FUEL BURNING EQUIPMENT SHALL BE INSTALLED PER 2019 CPC SEC 304
- ALL EXHAUST AND INTAKE OPENINGS TERMINATING OUTDOORS SHALL BE PROTECTED WITH CORROSION-RESISTANT SCREENS, LOUVERS OR GRILLES WITH OPENINGS OF 1/4" - 1/2" IN ANY DIMENSION PER CRC R303.6

GENERAL NOTES

- THE FOLLOWING NOTES, DETAILS SCHEDULES AND SPECIFICATIONS SHALL APPLY TO ALL PHASES OF THIS PROJECT UNLESS SPECIFICALLY NOTED OTHERWISE. NOTES AND DETAILS ON THE ARCHITECTURAL PLANS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- ALL DRAWINGS ARE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWING AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY APPLICABLE CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- ALL INFORMATION OF EXISTING CONDITIONS SHOWN ON THE PLANS ARE BASED ON BEST PRESENT KNOWLEDGE AVAILABLE BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE SITE. ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- CONTRACTOR SHALL USE WRITTEN DIMENSIONS FROM THE CONTRACT DOCUMENTS. DO NOT SCALE THE PLANS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING AS REQUIRED.
- THE ARCHITECT WILL NOT BE RESPONSIBLE FOR OR HAVE CONTROL OR CHARGE OF THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION DELINEATED IN THESE PLANS.
- THE CONTRACTOR OR HIS/HER AGENTS SHALL SUPERVISE AND DIRECT ALL WORK AND SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES, PROCEDURES AND CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- ALL WORKMANSHIP SHALL CONFORM TO THE BEST PRACTICE PREVAILING IN THE VARIOUS TRADES PERFORMING THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES.
- SEE STRUCTURAL GENERAL NOTES FOR MINIMUM REQUIREMENTS PERTAINING TO, BUT NOT LIMITED TO SOILS, FOUNDATIONS/ CONCRETE, LUMBER/ FRAMING, LATERAL BRACING
- ALL WORK DONE UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH THE 2019 EDITION OF THE CALIFORNIA BUILDING CODE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN AND INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE SAFETY UNTIL THE WORK IS COMPLETED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING ALL DIMENSIONS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND NON-STRUCTURAL ITEMS NOT SHOWN ON STRUCTURAL PLANS.
- ALL SCAFFOLDING AND SHORING SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE INDUSTRIAL SAFETY COMMISSION OF THE STATE OF CALIFORNIA.
- THE CONTRACTOR IS REQUIRED TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT MADE TO BE APPLIED CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE ARCHITECT FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ARCHITECT.
- ALL WATERPROOFING, DRAINAGE, SEALING, OR ANY AND ALL WATER AND/OR MOISTURE RELATED ISSUES ARE THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- ANY DISCREPANCIES OR AMBIGUITIES BETWEEN ON THE DRAWINGS AND/ OR SPECIFICATIONS BETWEEN ACTUAL CONDITIONS FOUND ON SITE, BETWEEN ANY OTHER DRAWING OR SPECIFICATION OR WITHIN THE SAME DRAWING, THEY, CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH WORK.
- NOTE: THE INTENT OF DESIGN CONTAINED IN THESE DRAWINGS IS: ALTERATIONS - ALTHOUGH SOME SHEAR LINES ARE BEING STRENGTHENED, THE BUILDING IS NOT BEING UPGRADED FULLY TO CURRENT CODE. THE ARCHITECT AND ENGINEER ARE NOT RESPONSIBLE FOR FULL CURRENT CODE COMPLIANCE. NO SIGNIFICANT FOUNDATION WORK IS BEING PERFORMED.

HAZARDOUS MATERIALS

ARCHITECT IS NOT RESPONSIBLE OR QUALIFIED TO HANDLE EXISTING HAZARDOUS MATERIALS (I.E. LEAD, ASBESTOS, FORMALDHYDE).

LEAD SAFE WORK PRACTICES AND CONTAINMENT ARE REQUIRED ON ALL STRUCTURES BUILT BEFORE 1978. PRACTICES AND CONTAINMENT APPLY TO ANY KNOWN LEAD-BASED PAINT (PAINT THAT HAS BEEN TESTED OR ANY AMOUNT OF PRE-1978 PAINT THAT HASN'T BEEN TESTED AS UNTESTED PAINT IS 'PRESUMED' LEAD BASED.

OWNERS, MANAGERS, CONTRACTORS AND OTHER INDIVIDUALS WHO PERFORM, RENOVATE, OR PAINT ON PRE-1978 BUILDING MUST COMPLY WITH THE ENVIRONMENTAL PROTECTION AGENCY (EPA) CERTIFICATION, TRAINING, AND SAFE WORK PRACTICE REQUIREMENTS. RENOVATION IS BROADLY DEFINED AS ANY ACTIVITY THAT DISTURBS PAINTED SURFACES AND INCLUDES MOST REPAIR, REMODELING, AND MAINTENANCE ACTIVITIES. THE WORK CAN ONLY BE PERFORMED BY AN INDIVIDUAL WHO HAS BEEN TRAINED AND IS EITHER CERTIFIED OR SUPERVISED BY SOMEONE WHO IS.

APPROVED SORTING AND RECYCLING FACILITY:

APPROVED COUNTY SORTING/RECYCLING FACILITY MUST BE UTILIZED FOR CONSTRUCTION WASTE MANAGEMENT TO COMPLY WITH CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING PROVISIONS OF CALIFORNIA GREEN BUILDING STANDARDS CODE SECTION 4.408.1 (MINIMUM 65% NON-HAZARDOUS MATERIALS RECYCLED AND/OR SALVAGED FOR RE-USE)

MARBORG INDUSTRIES
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CONTACTS

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GEORGE & KAREN WILLIAMS 2000 TRUST
173 HOT SPRINGS ROAD
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PHONE: 310-382-6388

ARCHITECT:
SHELTER ARCHITECTURE & URBAN DESIGN
MICHELLE MCTOLDRIDGE
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PHONE: (805) 895-3879
CA LIC. C29526

TITLE 24 REPORT

MECHANICAL ENGINEERING CONSULTANTS, INC. (M.E.C.)
1616 ANACAPA STREET
SANTA BARBARA, CA 93101
PH: 805-957-4632 X 207

CODES

APPLICABLE CODES

GROUP R-3/TYP E V-N NON-RATED CONSTRUCTION
ALL WORK TO COMPLY WITH THE FOLLOWING CODES:
2019 CALIFORNIA BUILDING CODE (C.B.C.)
2019 CALIFORNIA RESIDENTIAL CODE (TWO UNITS/ MAX 3 STORIES)
2019 CALIFORNIA PLUMBING CODE
2019 CALIFORNIA MECHANICAL CODE
2019 CALIFORNIA ELECTRICAL CODE
2019 CALIFORNIA FIRE CODE
2019 CALIFORNIA ENERGY CODE
& SBCO TITLE II COASTAL ZONING ORDINANCE

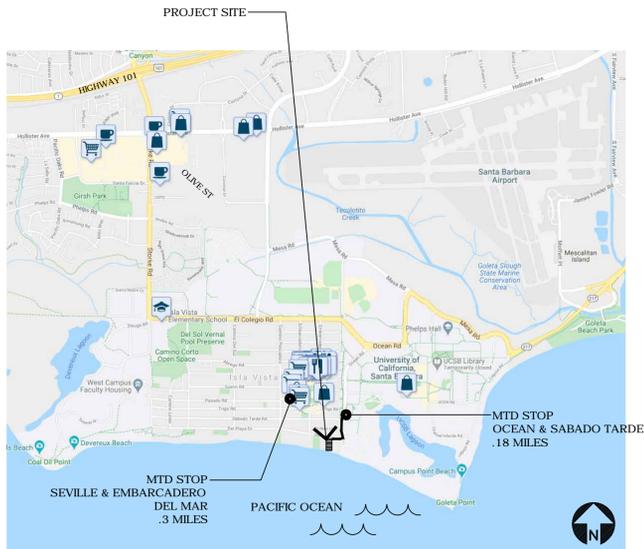
NO FIRE SPRINKLERS PROPOSED OR REQUIRED
(EXISTING RESIDENCE DOES NOT HAVE FIRE SPRINKLERS)

SHEET INDEX

ARCHITECTURAL

A 1.0	PROJECT DATA & NOTES
A 1.1	SITE PLAN
A 2.0	EXISTING AND PROPOSED FIRST FLOOR PLAN
A 2.1	EXISTING 2ND FLOOR PLAN, BUILDING SECTION
A 3.0	EXTERIOR ELEVATIONS
T 1	TITLE 24 (RMS-1 AND MANDATORY MEASURES)
T 2	TITLE 24 (CF1R SHEETS)

VICINITY MAP



PROJECT DATA

SCOPE OF WORK

CONVERT AN EXISTING 325 NET SF (350 GROSS SF) ATTACHED GARAGE OF AN EXISTING SFD TO A STUDIO ACCESSORY DWELLING UNIT. PURSUANT TO GOV CODE 65852.2 POST JAN 1, 2020. WORK INCLUDES ADDING KITCHEN AND BATHROOM FACILITIES AND REPLACING EXISTING GARAGE DOOR WITH NEW WINDOWS. WATER SERVICE IS PROVIDED BY GOLETA WATER DISTRICT AND SANITARY BY GOLETA SANITARY WEST. EXISTING SCE ELECTRICAL METER SERVES BOTH UNIT AND HOUSE.

PROJECT ADDRESS: 6513 DL PLAYA DRIVE

APN: 075-223-025

ZONE: SR-M-8

GENERAL PLAN:

SLOPE: 12% (PER CITY GIS)

LOT SIZE: 6,244 SQ. FT / .14 ACRES

HIGH FIRE: NO

FLOODING: NO

GRADING: NONE PROPOSED

SWMP: N/A

FLOOR AREAS: NET GROSS

(E) 2-STORY RESIDENCE		
1ST FLOOR	900 SF	975 SF
2ND FLOOR	1,275 SF	1,370 SF
TOTAL HABITABLE	2,175 SF	2,345 SF
(E) ATTACHED GARAGE	339 SF	370 SF
(E) SITE TOTAL	2,514 SF	2,715 SF
CONVERT (E) GARAGE TO ACCESSORY DWELLING UNIT	339 SF	370 SF
TOTAL PROPOSED FLOOR AREA	NO CHANGE	

PARKING	EXISTING	PROPOSED	REQUIRED
PRIMARY RESIDENCE	2 COVERED 2 UNCOVERED	0 COVERED 2 UNCOVERED	0 REQUIRED PER GOV CODE 65852.2 POST JAN 1, 2020
ADU	N/A	0 COVERED	0 REQUIRED*
*PARKING REQUIREMENT FOR ADU IS EXEMPT PER GOV CODE 65852.2 POST JAN 1, 2020 BASED ON PROXIMITY TO PUBLIC TRANSIT. SEE VICINITY MAP			
SITE TOTAL:	4	2 UNCOVERED	0 REQUIRED

MICHELLE MCTOLDRIDGE

LICENSED ARCHITECT



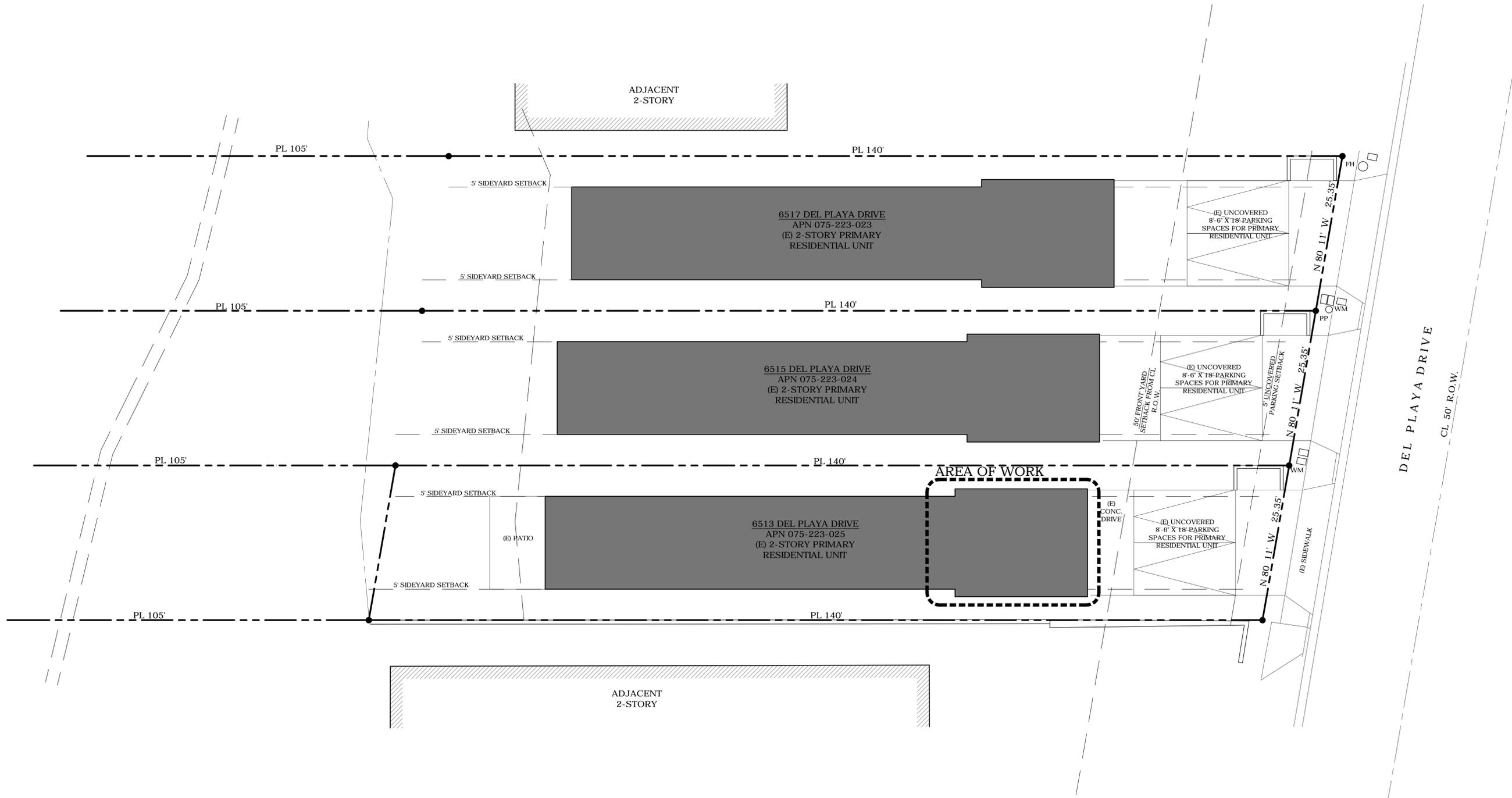
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A1.0

DATE: BLDG 06.10.20

RESERVED FOR APPROVAL STAMPS



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



MICHELLE MCTOLDRIDGE
LICENSED ARCHITECT

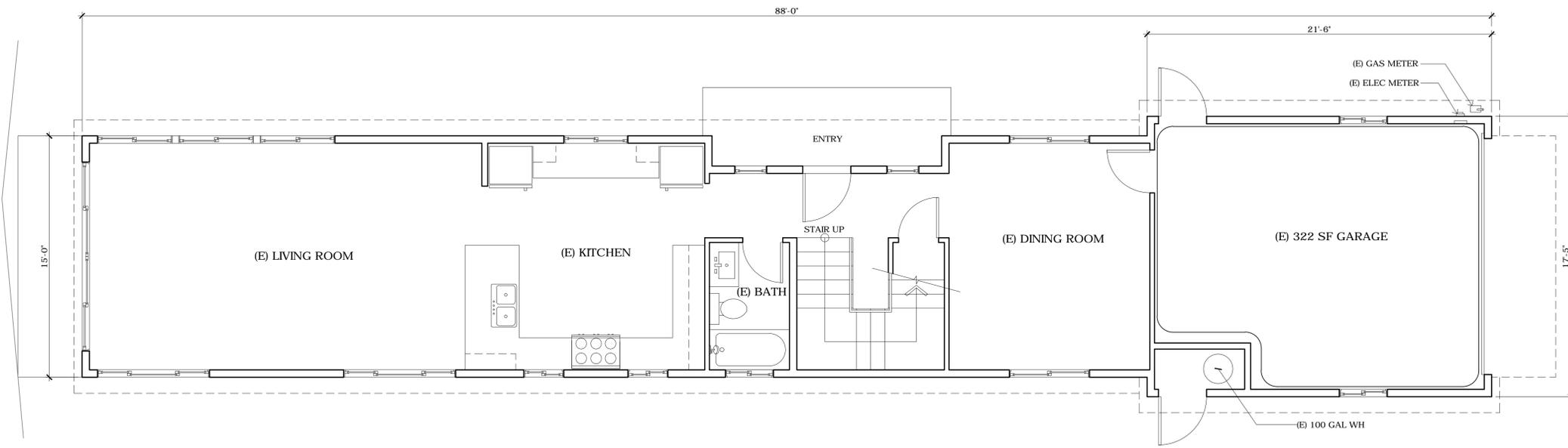


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EXISTING FIRST FLOOR PLAN

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



PLAN LEGEND

- EXISTING WALLS
- NEW WALLS
- HARDWIRED SMOKE DETECTOR PER SEC R314.3
- CARBON MONOXIDE (CO2) DETECTOR PER CRC R315.1 & R315.2 NOTE: CO2 DETECTOR CAN BE SOLELY BATTERY OPERATED WHEN INSTALLED IN EXISTING BUILDINGS
- PANASONIC FV-05 WHISPER SOFT CEILING FAN, FAN TO HAVE A MIN. EXHAUST RATE OF 50 CFM INTERMITTENT AND DUCTED TO EXTERIOR OF BUILDING. FAN SHALL BE CONTROLLED BY A READILY ACCESSIBLE HUMIDISTAT AND IS CAL GREEN & ENERGY STAR COMPLIANT. EXHAUST FANS IN ROOMS WITH BATHING FIXTURES (TUB AND/OR SHOWER) TO BE PROVIDED WITH PANASONIC CONDENSATION SENSOR MODULE
- ELECTRICAL RECEPTICAL NOTE: PROVIDE TAMPER RESISTANT OUTLETS IN ALL REMODELED AND NEW AREAS PER CEC 406.12 (EXCEPTION WHEN LOCATED > 5.5' WITHIN A CABINET OR CUPBOARD OR WHEN PART OF A LUMINAIRE OR APPLIANCE)
- GROUND FAULT CIRCUIT INTERRUPTER PROTECTED OUTLET AS REQUIRED PER CEC 210.8 NOTE: PROVIDE TAMPER RESISTANT OUTLETS IN ALL REMODELED AND NEW AREAS PER CEC 406.12 (SEE EXCEPTIONS)

NOTE: ALL NEW LIGHT FIXTURES ARE TO BE HIGH EFFICACY PER 2019 TITLE 24 REQUIREMENTS. SEE ADDITIONAL ELECTRICAL NOTES (THIS PAGE) FOR DETAILED REQUIREMENTS AND INFORMATION

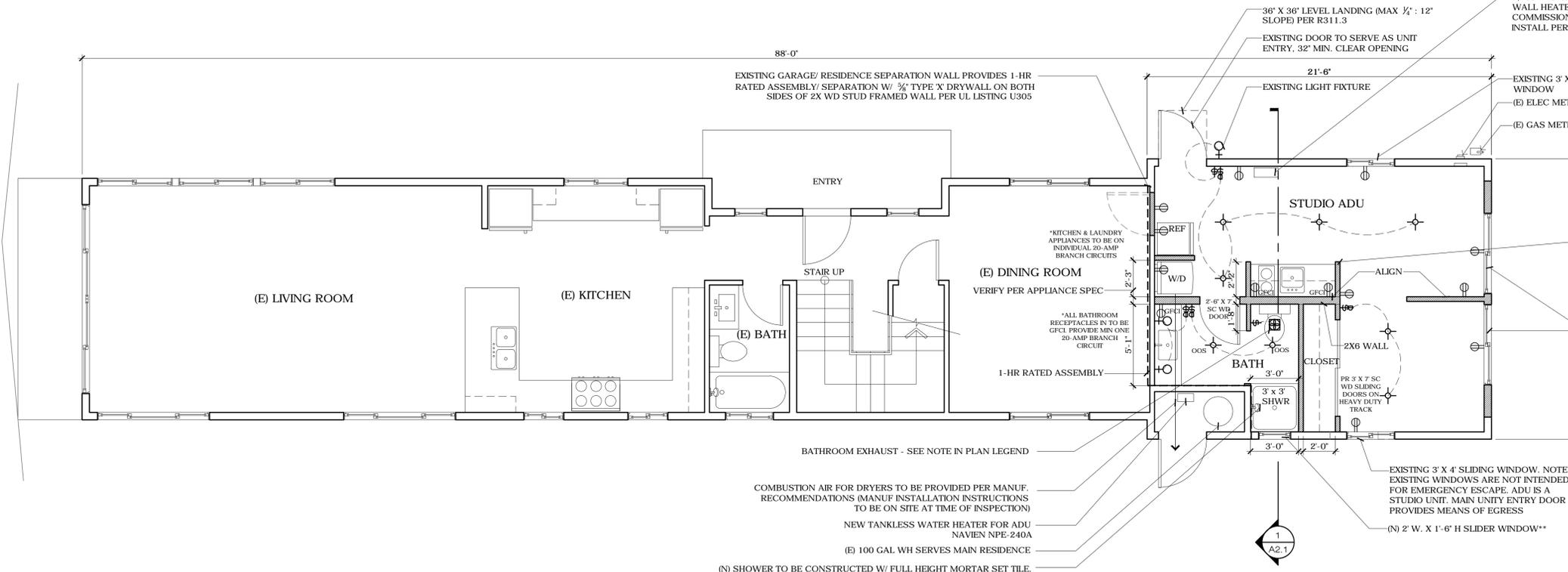
RECESSED LIGHTS

THE FOLLOWING LED RECESSED FIXTURES DO NOT HAVE SCREW BASED SOCKETS, AND SHALL BE APPROVED FOR ZERO CLEARANCE INSULATION COVER IC RATED BY UL OR OTHER TESTING LAB RECOGNIZED BY THE BUILDING OFFICIAL AND SHALL BE AIR TIGHT TO SHOW AIR LEAKAGE LESS THAN 2.0 DFM AT 0.011 PSI IN ACCORDANCE WITH ASTM E283 AND SEALED WITH A GASKET OR CAULK BETWEEN HOUSING AND CEILING PER CEC 150K.

- 3" - 4" LED ROUND RECESSED DOWNLIGHT
- SCREW BASED LIGHTS**
- SCREW BASED LIGHTS ARE ACCEPTABLE IF THEY MEET THE FOLLOWING REQUIREMENTS:
 - A. NOT A RECESSED DOWN LIGHT
 - B. LAMP COMPLIES WITH REF. JOINT APPENDIX JA8
 - C. LAMP IS MARKED WITH 'JA8-2016' OR 'JA-82016E'
- SURFACE MOUNT FIXTURE/ WALL SCONCE.

LIGHTING ABBREVIATIONS:

- WP LENSED/ WET LOCATION RATED
- OOS ON/ OFF OCCUPANCY SENSOR (SEE LIGHTING NOTES)



PROPOSED FIRST FLOOR PLAN

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



PLUMBING FIXTURE REQUIREMENTS FOR PROPOSED ADU FIXTURES (PER 2019 CGBC):

- TOILETS: NOT TO EXCEED 1.28 GALLONS PER FLUSH
- LAV FAUCETS: FLOW RATES NOT TO EXCEED 1.2 GPM @ 60 PSI
- COMBINED FLOWRATE OF ALL SHOWER HEADS SERVING A SINGLE SHOWER STALL SHALL NOT EXCEED 2.0 GPM @ 80 PSI
- MULTIPLE SHOWER HEADS IN SAME SHOWER COMBINED FLOW RATE OF 2.0 GPM @ 80 PSI OR DESIGNED SO THAT ONLY ONE SHOWER HEAD/ HAND HELD CAN BE USED AT A TIME
- KITCHEN FAUCET MAX FLOW RATE SHALL NOT EXCEED 1.8 GPM @ 60 PSI (MAY TEMPORARILY INCREASE THE FLOW TO ABOVE MAX. RATE BUT NOT EXCEED 2.2 GPM AT 60 PSI AND MUST DEFAULT TO A MAX FLOW F 1.8 GPM AT 60 PSI)

TYPICAL NEW FULL HEIGHT, NON-BEARING PARTITION WALLS 2X4 WD STUDS @ MIN 16" O.C. W/ 1/2" TYPE 'X' GYP BD FINISH

ALL HIGH EFFICACY RECESSED LED LIGHT FIXTURES - SEE LEGEND ABOVE

**NOTE: NEW WINDOWS TO HAVE A MAX U-FACTOR OF .32 AND MAX SHGC .25. NFRC THERMAL PERFORMANCE LABELS SHALL REMAIN ON WINDOWS UNTIL FINAL INSPECTION

WINDOW INSTALLATION NOTES:

WINDOW/ DOOR OPENING FLASHING TO BE A MINIMUM OF 9" WIDE COPPER KRAFT PAPER LAMINATE BSK GRADE 714 ALUM. BUILDING PAPER VAPOR BARRIER GRACE 'VYCOR PLUS' OR SIMILAR MATERIAL FLASHING SHALL PROVIDE 4-HOUR PROTECTION FROM WATER PENETRATION PER ASTM D-779 AND SHALL COMPLY WITH DETAILS IN ASTM E-2112
 INSTALL FLASHING AS REQUIRED BY WINDOW AND FLASHING MANUFACTURER
 SEAL WINDOW/ DOOR OPENING WITH APPROVED CAULKING AS REQUIRED BY WINDOW MANUFACTURER AND PER GOOD PRACTICE
 PATCH AND REPAIR ANY INTERRUPTION TO EXISTING OR NEW WEATHER-RESISTIVE BARRIER OVER ANY EXTERIOR WALL WHERE WORK IS PERFORMED

NEW WINDOW INSTALLATION SEQUENCE

1. INSTALL SILL FLASHING
2. INSTALL JAMB FLASHING
3. INSTALL WINDOW. ALLOW BUILDING PAPER TO BE INSTALLED BELOW WINDOW FRAME
4. INSTALL HEAD FLASHING OVER WINDOW HEAD

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 LICENSED ARCHITECT

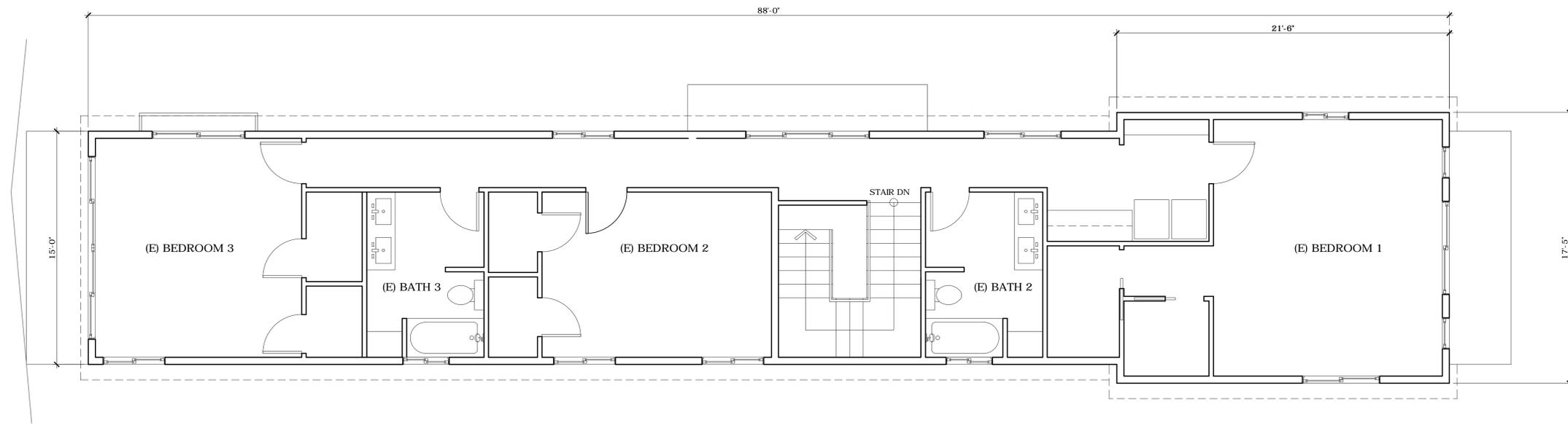


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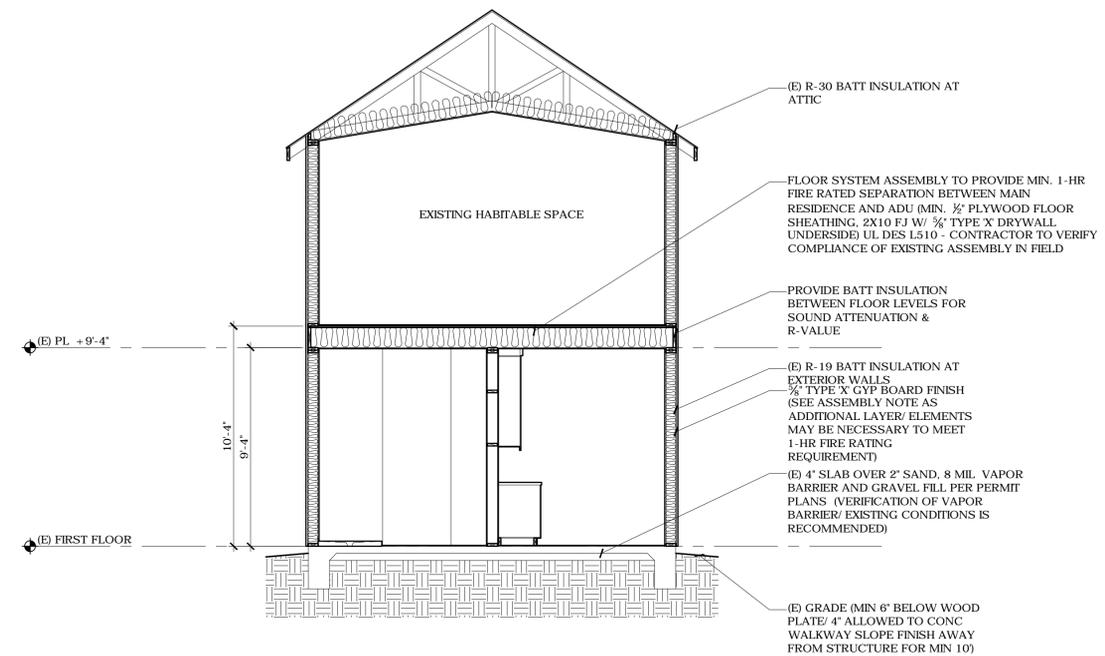
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EXISTING SECOND FLOOR PLAN (FOR REFERENCE ONLY - NO WORK PROPOSED)

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



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

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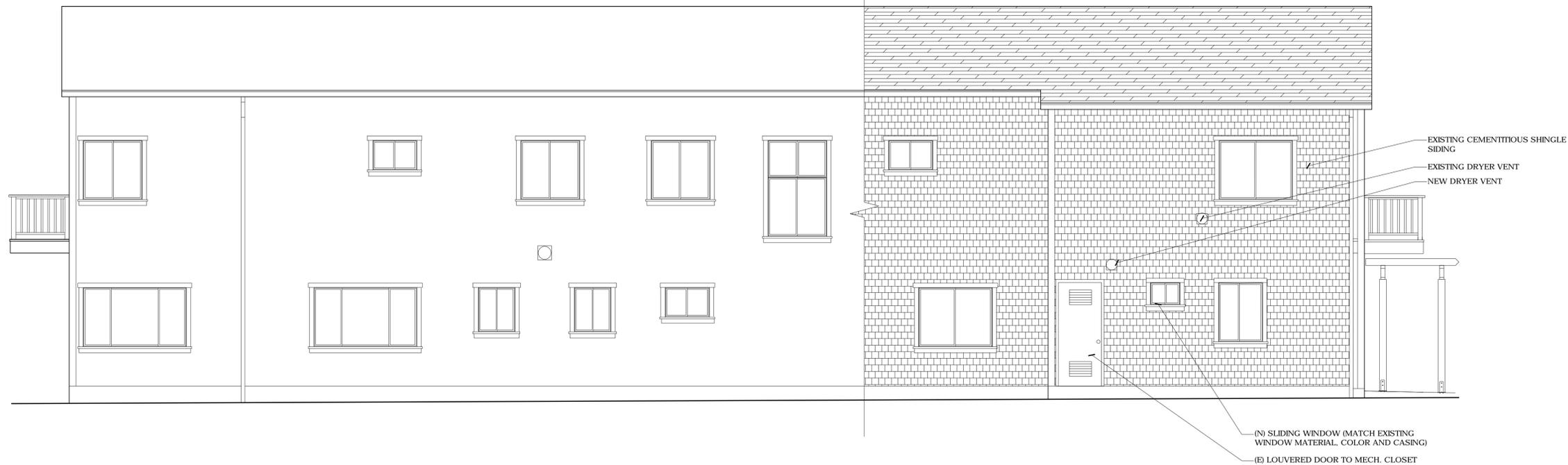
WEST ELEVATION
(NO WORK PROPOSED)



EXISTING NORTH ELEVATION



PROPOSED NORTH ELEVATION



PROPOSED EAST ELEVATION

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RESIDENTIAL MEASURES SUMMARY RMS-1

Project Name: Williams ADU Garage Conversion, Building Type: Single Family, Date: 6/29/2020, Project Address: 6513 Del Playa Drive Santa Barbara, California Energy Climate Zone: CA Climate Zone 06, Total Cond. Floor Area: 370, Addition: 370, # of Units: 1

INSULATION table with columns: Construction Type, Cavity, Area (ft²), Special Features, Status. Rows include Wall (Wood Framed), Door (Opaque Door), Demising (Wood Framed w/o Crawl Space), Slab (Unheated Slab-on-Grade).

FENESTRATION table with columns: Orientation, Area (ft²), U-Fac, SHGC, Overhang, Sidelights, Exterior Shades, Status. Rows include Front (W), Left (N), Rear (E), Rear (E).

HVAC SYSTEMS table with columns: Qty, Heating, Min. Eff, Cooling, Min. Eff, Thermostat, Status. Row: 1 Gravitly Wall Furnace, 72% AFUE, No Cooling, 14.0 SEER, Setback, New.

HVAC DISTRIBUTION table with columns: Location, Heating, Cooling, Duct Location, Duct R-Value, Status. Row: Wall Furnace, Ductless / with Fan, Ductless, n/a, n/a, New.

WATER HEATING table with columns: Qty, Type, Gallons, Min. Eff, Distribution, Status. Row: 1 Small Instantaneous Gas, 0, 0.96, Standard, New.

2019 Low-Rise Residential Mandatory Measures Summary

NOTE: Low-rise residential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. *Exceptions may apply. (01/2020)

Table of 2019 Low-Rise Residential Mandatory Measures Summary, including sections for Building Envelope Measures, Fireplaces, Decorative Gas Appliances, and Gas Log Measures, Space Conditioning, Water Heating, and Plumbing System Measures.

2019 Low-Rise Residential Mandatory Measures Summary

Table of 2019 Low-Rise Residential Mandatory Measures Summary, including sections for Clearances, Liquid Line Drier, Storage Tank Insulation, Water Piping, Solar Water-heating System Piping, Insulation Protection, Gas or Propane Water Heating Systems, Recirculating Loops, Solar Water-heating Systems, Ducts and Fans Measures, and Space Conditioning System Measures.

2019 Low-Rise Residential Mandatory Measures Summary

Table of 2019 Low-Rise Residential Mandatory Measures Summary, including sections for Requirements for Ventilation and Indoor Air Quality, Pool and Spa Systems and Equipment Measures, Lighting Measures, and Solar Ready Buildings.

2019 Low-Rise Residential Mandatory Measures Summary

Table of 2019 Low-Rise Residential Mandatory Measures Summary, including sections for Interior Switches and Controls, Residential Outdoor Lighting, Residential Outdoor Lighting, Internally Illuminated Address Signs, Residential Garages for Eight or More Vehicles, Interior Common Areas of Low-rise Multifamily Residential Buildings, and Solar Ready Buildings.

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

Summary of HVAC system heating and cooling loads, including tables for Engineering Checks, System Load, and Psychrometrics (Airstream Temperatures at Time of Heating Peak and Cooling Peak).

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GENERAL INFORMATION					
01	Project Name	6513 Del Playa Residence ADU			
02	Run Title	Title 24 Analysis			
03	Project Location	6513 Del Playa Drive			
04	City	05	Standards Version	2019	
06	Zip code	07	Software Version	EnergyPro 8.1	
08	Climate Zone	09	Front Orientation (deg/ Cardinal)	270	
10	Building Type	11	Number of Dwelling Units	1	
12	Project Scope	13	Number of Bedrooms	4	
14	Addition Cond. Floor Area (ft ²)	15	Number of Stories	1	
16	Existing Cond. Floor Area (ft ²)	17	Fenestration Average U-factor	0.44	
18	Total Cond. Floor Area (ft ²)	19	Glazing Percentage (%)	12.70%	
20	ADU Bedroom Count	21	ADU Conditioned Floor Area	370	
22	Is Natural Gas Available?	Yes			

Addition Alone Project Analysis Parameters					
01	02	03	04	05	06
Existing Area (excl. new addition) (ft ²)	Addition Area (excl. existing) (ft ²)	Total Area (ft ²)	Existing Bedrooms	Addition Bedrooms	Total Bedrooms
2345	370	2715	3	1	4

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	Building does not incorporate Special Features

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SLAB FLOORS						
01	02	03	04	05	06	07
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab-on-Grade	First Floor	370	63	None	80%	No

OPAQUE SURFACE CONSTRUCTIONS							
01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-19 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O.C.	R-19	None / None	0.074	Inside Finish: Gypsum Board Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6 Exterior Finish: 3 Coat Stucco
R-19 Floor No Crawlspace	Interior Floors	Wood Framed Floor	2x10 @ 16 in. O.C.	R-19	None / None	0.045	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 / 2x10 Ceiling Below Finish: Gypsum Board

BUILDING ENVELOPE - HERS VERIFICATION			
01	02	03	04
Quality Insulation Installation (QII)	Quality Installation 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
Name	System Type	Distribution Type	Water Heater Name (#)	Solar Heating System	Compact Distribution	HERS Verification
DHW Sys 1	Domestic Hot Water (DHW)	Standard Distribution System	DHW Heater 1 (1)	n/a	None	n/a

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ENERGY USE SUMMARY				
Energy Use (kTODU/ft ² -yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating	4.19	9.36	-5.17	-123.4
Space Cooling	8.99	15.16	-6.17	-68.6
IAQ Ventilation	4.18	4.18	0	0
Water Heating	92.3	80.29	12.01	13
Self Utilization Credit	n/a	0	0	n/a
Compliance Energy Total	109.66	108.99	0.67	0.6

REQUIRED SPECIAL FEATURES
 The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.
 * NO SPECIAL FEATURES REQUIRED

HERS FEATURE SUMMARY
 The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry.
 Building-level Verifications:
 * Indoor air quality ventilation
 * Kitchen range hood
 Cooling System Verifications:
 * -- None --
 Heating System Verifications:
 * -- None --
 HVAC Distribution System Verifications:
 * -- None --
 Domestic Hot Water System Verifications:
 * -- None --

ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft ²)	Avg. Ceiling Height	Water Heating System 1	Water Heating System 2
First Floor	Conditioned	Wall Furnace1	370	8	DHW Sys 1	N/A

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WATER HEATERS													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heating Element Type	Tank Type	# Units	Tank Vol. (gal)	Energy Factor or Efficiency	Input Rating or Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss or Recovery Eff.	1st Hr. Rating or Flow Rate	NEEA Heat Pump Brand or Model	Tank Location or Ambient Condition	Status	Verified Existing Condition
DHW Heater 1	Gas	Consumer Instantaneous	1	0	0.96-UEF	<= 200 kBTU/hr	0	n/a	n/a	n/a	n/a	New	n/a

WATER HEATING - HERS VERIFICATION							
01	02	03	04	05	06	07	08
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Central DHW Distribution	Shower Drain Water Heat Recovery
DHW Sys 1 - 1/1	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 Thermostat Type	Status	Verified Existing Condition	Heating Equipment Count	Cooling Equipment Count
Wall Furnace1	Heating and cooling system other	Heating Component 1	Cooling Component 1	HVAC Fan 1		Non-setback thermostat	New	NA	1	1

HVAC - HEATING UNIT TYPES			
01	02	03	04
Name	System Type	Number of Units	Heating Efficiency
Heating Component 1	Gas wall furnace	1	AFUE-72

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OPAQUE SURFACES									
01	02	03	04	05	06	07	08	09	10
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft ²)	Tilt (deg)	Wall Exceptions	Status
N Wall	First Floor	R-19 Wall	270	Front	201	32	90	none	New
E Wall	First Floor	R-19 Wall	0	Left	163	20	90	none	New
S Wall	First Floor	R-19 Wall	90	Back	201	15	90	none	New
W Wall	First Floor	R-19 Wall	180	Right	28	0	90	none	New
Habitable Space Above	First Floor	R-19 Floor No Crawlspace	n/a	n/a	370	n/a	n/a		New

FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window	Window	N Wall	Front	270	1	12	1	12	0.55	Table 110.6-A	0.67	Table 110.6-B	Bug Screen
Window 2	Window	E Wall	Left	0	1	10	1	10	0.32	NFRC	0.25	NFRC	Bug Screen
Window 3	Window	E Wall	Left	0	1	10	1	10	0.32	NFRC	0.25	NFRC	Bug Screen
Window 4	Window	S Wall	Back	90	1	3	1	3	0.32	NFRC	0.25	NFRC	Bug Screen
Window 5	Window	S Wall	Back	90	1	12	1	12	0.55	Table 110.6-A	0.67	Table 110.6-B	Bug Screen

OPAQUE DOORS			
01	02	03	04
Name	Side of Building	Area (ft ²)	U-factor
Entry Door	N Wall	20	0.5

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HVAC - COOLING UNIT TYPES							
01	02	03	04	05	06	07	08
Name	System Type	Number of Units	Efficiency EER	Efficiency SEER	Zonally Controlled	Multi-speed Compressor	HERS Verification
Cooling Component 1	No Cooling	1			Not Zonal	Single Speed	n/a

HVAC - FAN SYSTEMS			
01	02	03	04
Name	Type	Fan Power (Watts/CFM)	Name
HVAC Fan 1	HVAC Fan	0.58	n/a

IAQ (INDOOR AIR QUALITY) FANS					
01	02	03	04	05	06
Dwelling Unit	IAQ CFM	IAQ Watts/CFM	IAQ Fan Type	IAQ Recovery Effectiveness (%)	IAQ Recovery Effectiveness - SRE
Sfam ADU IAQVentRpt	26	0.25	Default	0	n/a

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I, I certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: Scott Baer
 Documentation Author Signature: *Scott Baer*
 Company: MEC
 Signature Date: 2020-06-29 15:34:30
 Address: 1616 Anacapa St.
 City/State/Zip: Santa Barbara, CA 93101
 Phone: 805-957-4632 206

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
 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.
 3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 Responsible Designer Name: Michelle McToldridge
 Responsible Designer Signature: *Michelle McToldridge*
 Company: Shelter Architecture
 Date Signed: 2020-06-29 19:54:22
 Address: 540 Barker Pass
 License: C29526
 City/State/Zip: Santa Barbara, CA 93108
 Phone: 805-895-3879

Digitally signed by CaCERTS. 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.



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WILLIAMS ADU
 GARAGE COVERSION
 6513 DEL PLAYA DRIVE
 SANTA BARBARA, CA

T2

DATE: BLDG 06.10.20

DEL PLAYA RESIDENCE - ADU

(EXISTING GARAGE CONVERSION)
6515 DEL PLAYA DRIVE
ISLA VISTA, CA

SHELTER
a r c h i t e c t u r e
u r b a n d e s i g n

MEP GENERAL NOTES

- ELECTRICAL NOTES:**
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2019 CALIFORNIA ELECTRICAL CODE (CEC) AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
 - CONTRACTOR TO FURNISH AND INSTALL ALL EQUIPMENT, MATERIALS AND FIXTURES UNLESS OTHERWISE NOTED.
 - ALL ELECTRICAL EQUIPMENT AND FIXTURES SHALL BE LISTED AND APPROVED BY A RECOGNIZED TESTING LAB AND INCLUDE APPROPRIATE LABELS
 - GROUNDING AND BONDING SHALL BE PER CODE
 - ALL CONDUIT RUNS SHALL INCLUDE A CODE SIZED GREEN GROUND WIRE
 - FEEDER CONDUCTORS SHALL BE IN CONDUIT
 - CONDUCTORS SHALL BE COPPER WITH APPROPRIATE INSULATION
 - CONVENIENCE OUTLETS SHALL BE LOCATED AND SPACED PER 2019 CEC 210.52. 11. WITH A RECEPTACLE REQUIRED AT ANY WALL SPACE 2' OR WIDER, NOT MORE THAN 6' FROM OPENINGS AND NOT MORE THAN 12' ON CENTER.
 - ARC-FAULT CIRCUIT INTERRUPTER REQUIRED WHERE BRANCH CIRCUITS ARE MODIFIED, REPLACED OR EXTENDED THAT SUPPLY 120-V. SINGLE PHASE, 15 AND 20 AMP OUTLETS IN BEDROOMS, FAMILY ROOMS, LIVING ROOMS, DINING ROOMS, CLOSETS, AND DINING ROOMS, CLOSETS AND HALLWAYS.
 - ALL OUTLETS SERVING KITCHEN COUNTERTOP SHALL BE GROUND FAULT CIRCUIT INTERRUPTER PROTECTED (GFI) PER CEC 210.8(A)(1)
 - KITCHEN COUNTER OUTLETS SHALL BE 4'-0" O.C. MAX. WITH NO POINT ALONG THE WALL MORE THAN 2'-0" FROM AN OUTLET (EXCEPT AT SINK) PER CEC 210.52 (C)(1)
 - KITCHEN ISLANDS TO BE PROVIDED WITH AT LEAST ONE RECEPTACLE OUTLET PER CEC 210.52(C)(2)
 - ALL NON-LOCKING TYPE 125-VOLT 15 & 20 AMP RECEPTACLES SHALL BE LISTED TAMPER RESISTANT 2019 CEC 406.12 EXCEPTIONS 1) THOSE MORE THAN 66" ABOVE THE FLOOR 2) PART OF A LUMINAIRE OR APPLIANCE 3) SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES THAT ARE NOT EASILY MOVED AND LOCATED WITHIN DEDICATED SPACE AND ARE CHORD AND PLUG CONNECTED AS PER CEC 400.7 OR 4) NON-GROUNDING RECEPTACLES USED FOR REPLACEMENTS AS PERMITTED IN CEC 406.4 (D)(2)(a)
 - PROVIDE A MIN. OF 2 SEPARATE 20 AMP CIRCUITS TO KITCHEN PER CEC 210.52(B)
 - BATHROOM RECEPTACLE OUTLETS TO BE GFI PROTECTED PER CEC 210.8(A)(6)
 - PROVIDE A MIN. OF 1 SEPARATE 20 AMP CIRCUIT TO EA. BATHROOM PER CEC-10(C-3)
 - GFCI TYPE OUTLETS REQUIRED IN BATHROOMS, KITCHEN COUNTERTOPS, PRIVATE GARAGES AND EXTERIOR RECEPTACLES PER 2019 CEC SECTION 210.8.

- LIGHTING NOTES:**
- ALL NEW FIXTURES ARE TO BE HIGH EFFICACY PER 2019 TITLE 24 REQUIREMENTS PER NOTES BELOW AND ADDITIONAL NOTES THIS SHEET
- THE FOLLOWING LIGHTING IS HIGH EFFICACY:**
- PN BASED LINEAR FLUORESCENT, PN BASED COMPACT FLUORESCENT, PULSE START METAL HALIDE, HIGH PRESSURE SODIUM, GU-24 (OTHER THAN LED), INSEPARABLE SOLID STATE LUMINAIRES (SSL) INSTALLED OUTDOORS OR INSEPARABLE SSL LUMINAIRES WITH COLORED LIGHT SOURCES FOR DECORATIVE PURPOSES.
- THE FOLLOWING LAMPS AND LIGHT SOURCES ARE HIGH EFFICACY IF THEY ARE JOINT APPENDIX JA8-CERTIFIED:**
- JA-8 CERTIFIED LAMPS AND LIGHT SOURCES ARE MARKED AS 'JA8-2016' OR 'JA82016-E'. THESE FIXTURES INCLUDE: LED LUMINAIRES WITH INTEGRAL SOURCES THAT ARE CERTIFIED BY THE ENERGY COMMISSION, SCREW BASED LED LAMPS (A-LAMPS, PAR LAMPSES, ETC), PN-BASED LED LAMPS (MR-16, AR-111, ETC) GU-24 BASED LED LIGHT SOURCES AND OTHER LUMINAIRES.
- AND A DIMMER OR VACANCY SENSORS SHALL CONTROL ALL LUMINAIRES REQUIRED TO HAVE LIGHT SOURCES COMPLIANT WITH REFERENCE JOINT APPENDIX JA8
- A MINIMUM OF ONE LIGHT IN BATHROOMS, LAUNDRY ROOMS, UTILITY ROOMS AND GARAGES TO BE CONTROLLED BY A MANUAL ON/AUTOMATIC OFF OCCUPANCY SENSOR - SEE PLAN BELOW FOR IDENTIFICATION OF FIXTURES THAT ARE DESIGNATED TO MEET THIS REQUIREMENT - OOS"

- PLUMBING NOTES:**
- ALL NEW INDOOR & OUTDOOR WATER USE TO COMPLY WITH 2019 CALGREEN STANDARDS
 - DOMESTIC HOT WATER PIPING SYSTEM SHALL BE INSULATED PER 2019 CEC SEC 150.00(C) 7.
 - PRESSURE BALANCING OR THERMOSTATIC MIXING VALVES REQUIRED AT NEW SHOWERS PER CPC 420.0
 - WATER HEATERS INSTALLED IN BEDROOMS AND BATHROOMS SHALL COMPLY WITH 2019 CPC SECTION 505
 - ALL FIXTURES COMING INTO CONTACT WITH POTABLE WATER MUST BE LEAD FREE

- PLUMBING FIXTURE REQUIREMENTS PER 2019 CALIFORNIA GREEN BLDG CODE:**
- WATER CLOSETS/TOILETS: NOT TO EXCEED 1.28 GALLONS PER FLUSH
 - LAVATORY FAUCETS: FLOW RATES NOT TO EXCEED 1.2 GPM @ 60 PSI
 - COMBINED FLOWRATE OF ALL SHOWER HEADS SERVING A SINGLE SHOWER STALL SHALL NOT EXCEED 2.0 GPM @ 80 PSI OR DESIGNED SO THAT ONLY ONE SHOWER HEAD/ HAND HELD CAN BE USED AT A TIME
 - KITCHEN FAUCET MAX FLOW RATE SHALL NOT EXCEED 1.8 GPM @ 60 PSI (MAY TEMPORARILY INCREASE THE FLOW TO ABOVE MAX. RATE BUT NOT EXCEED 2.2 GPM AT 60 PSI AND MUST DEFAULT TO A MAX FLOW F 1.8 GPM AT 60 PSI)

- GAS WATER HEATER NOTES:**
- PROVIDE A CAT II OR IV VENT OR TYPE B VENT W/ STRAIGHT PIPE BTWN THE OUTSIDE TERMINATION AND THE SPACE WHERE THE WATER HEATER IS INSTALLED
 - A CONDENSATE DRAIN THAT IS NO MORE THAN 2" HIGHER THAN THE BASE OF THE INSTALLED WATER HEATER AND ALLOWS NATURAL DRAINING WITHOUT PUMP ASSISTANCE
 - GAS SUPPLY LINE WITH A CAPACITY OF AT LEAST 200,000 BTU

- HVAC NOTES:**
- PROVIDE NATURAL VENTILATION A MINIMUM OF 4% OF FLOOR AREA PER CBC 1203.4.1
 - BATHROOMS CONTAINING A SHOWER OR TUB SHALL BE MECHANICALLY VENTED WITH AN EXHAUST FAN OF 50 CFM. (20 CFM FOR CONTINUOUS OPERATION).
 - EXHAUST FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENT SYSTEM FANS MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE.
 - INTERIOR SPACES INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH ACTIVE OR PASSIVE SPACE-HEATING SYSTEMS CAPABLE OF MAINTAINING A MIN. INDOOR TEMPERATURE OF 68 DEGREES F AT A POINT 3 FEET ABOVE THE FLOOR. 2016 CBC SECTION 1204/ CRC 303.8.
 - VENT DRYER TO OUTSIDE WITH 14' MAX. LENGTH INCLUDING A MAX. OF TWO 90 DEGREE BENDS.
 - FUEL BURNING EQUIPMENT SHALL BE INSTALLED PER 2019 CPC SEC 304
 - ALL EXHAUST AND INTAKE OPENINGS TERMINATING OUTDOORS SHALL BE PROTECTED WITH CORROSION-RESISTANT SCREENS, LOUVERS OR GRILLES WITH OPENINGS OF 1/4" - 1/2" IN ANY DIMENSION PER CRC R303.6

GENERAL NOTES

- THE FOLLOWING NOTES, DETAILS SCHEDULES AND SPECIFICATIONS SHALL APPLY TO ALL PHASES OF THIS PROJECT UNLESS SPECIFICALLY NOTED OTHERWISE. NOTES AND DETAILS ON THE ARCHITECTURAL PLANS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- ALL DRAWINGS ARE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWING AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY APPLICABLE CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE THE OWNER OR ARCHITECT.
- ALL INFORMATION OF EXISTING CONDITIONS SHOWN ON THE PLANS ARE BASED ON BEST PRESENT KNOWLEDGE AVAILABLE BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE SITE. ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- CONTRACTOR SHALL USE WRITTEN DIMENSIONS FROM THE CONTRACT DOCUMENTS. DO NOT SCALE THE PLANS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING AS REQUIRED.
- THE ARCHITECT WILL NOT BE RESPONSIBLE FOR OR HAVE CONTROL OR CHARGE OF THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION DELINEATED IN THESE PLANS.
- THE CONTRACTOR OR HIS/HER AGENTS SHALL SUPERVISE AND DIRECT ALL WORK AND SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES, PROCEDURES AND CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- ALL WORKMANSHIP SHALL CONFORM TO THE BEST PRACTICE PREVAILING IN THE VARIOUS TRADES PERFORMING THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES.
- SEE STRUCTURAL GENERAL NOTES FOR MINIMUM REQUIREMENTS PERTAINING TO, BUT NOT LIMITED TO SOILS, FOUNDATIONS/ CONCRETE, LUMBER/ FRAMING, LATERAL BRACING
- ALL WORK DONE UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH THE 2019 EDITION OF THE CALIFORNIA BUILDING CODE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN AND INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE SAFETY UNTIL THE WORK IS COMPLETED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING ALL DIMENSIONS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND NON-STRUCTURAL ITEMS NOT SHOWN ON STRUCTURAL PLANS.
- ALL SCAFFOLDING AND SHORING SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE INDUSTRIAL SAFETY COMMISSION OF THE STATE OF CALIFORNIA.
- THE CONTRACTOR IS REQUIRED TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT MADE TO BE APPLIED CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE ARCHITECT FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ARCHITECT.
- ALL WATERPROOFING, DRAINAGE, SEALING, OR ANY AND ALL WATER AND/OR MOISTURE RELATED ISSUES ARE THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- ANY DISCREPANCIES OR AMBIGUITIES BETWEEN ON THE DRAWINGS AND/ OR SPECIFICATIONS BETWEEN ACTUAL CONDITIONS FOUND ON SITE, BETWEEN ANY OTHER DRAWING OR SPECIFICATION OR WITHIN THE SAME DRAWING, THEY, CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH WORK.
- NOTE: THE INTENT OF DESIGN CONTAINED IN THESE DRAWINGS IS: ALTERATIONS - ALTHOUGH SOME SHEAR LINES ARE BEING STRENGTHENED, THE BUILDING IS NOT BEING UPGRADED FULLY TO CURRENT CODE. THE ARCHITECT AND ENGINEER ARE NOT RESPONSIBLE FOR FULL CURRENT CODE COMPLIANCE. NO SIGNIFICANT FOUNDATION WORK IS BEING PERFORMED.

HAZARDOUS MATERIALS

ARCHITECT IS NOT RESPONSIBLE OR QUALIFIED TO HANDLE EXISTING HAZARDOUS MATERIALS (I.E. LEAD, ASBESTOS, FORMALDHYDE).

LEAD SAFE WORK PRACTICES AND CONTAINMENT ARE REQUIRED ON ALL STRUCTURES BUILT BEFORE 1978. PRACTICES AND CONTAINMENT APPLY TO ANY KNOWN LEAD-BASED PAINT (PAINT THAT HAS BEEN TESTED) OR ANY AMOUNT OF PRE-1978 PAINT THAT HASN'T BEEN TESTED AS UNTESTED PAINT IS "PRESUMED" LEAD BASED.

OWNERS, MANAGERS, CONTRACTORS AND OTHER INDIVIDUALS WHO PERFORM, RENOVATE, OR PAINT ON PRE-1978 BUILDING MUST COMPLY WITH THE ENVIRONMENTAL PROTECTION AGENCY (EPA) CERTIFICATION, TRAINING, AND SAFE WORK PRACTICE REQUIREMENTS. RENOVATION IS BROADLY DEFINED AS ANY ACTIVITY THAT DISTURBS PAINTED SURFACES AND INCLUDES MOST REPAIR, REMODELING, AND MAINTENANCE ACTIVITIES. THE WORK CAN ONLY BE PERFORMED BY AN INDIVIDUAL WHO HAS BEEN TRAINED AND IS EITHER CERTIFIED OR SUPERVISED BY SOMEONE WHO IS.

APPROVED SORTING AND RECYCLING FACILITY:

APPROVED COUNTY SORTING/RECYCLING FACILITY MUST BE UTILIZED FOR CONSTRUCTION WASTE MANAGEMENT TO COMPLY WITH CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING PROVISIONS OF CALIFORNIA GREEN BUILDING STANDARDS CODE SECTION 4.408.1 (MINIMUM 65% NON-HAZARDOUS MATERIALS RECYCLED AND/OR SALVAGED FOR RE-USE)

MARBORG INDUSTRIES
119 N. QUARANTINA ST SANTA BARBARA, CA
PH: 805.963.1852

CONTACTS

OWNER:
GEORGE & KAREN WILLIAMS 2000 TRUST
173 HOT SPRINGS ROAD
SANTA BARBARA, CA 93108
PHONE: 310-382-6388

ARCHITECT:
SHELTER ARCHITECTURE & URBAN DESIGN
MICHELLE MCTOLDRIDGE
PO BOX 5755
SANTA BARBARA, CA 93150
PHONE: (805) 895-3879
CA LIC. C29526

TITLE 24 REPORT

MECHANICAL ENGINEERING CONSULTANTS, INC. (M.E.C.)
1616 ANACAPA STREET
SANTA BARBARA, CA 93101
PH: 805-957-4632 X 207

CODES

APPLICABLE CODES

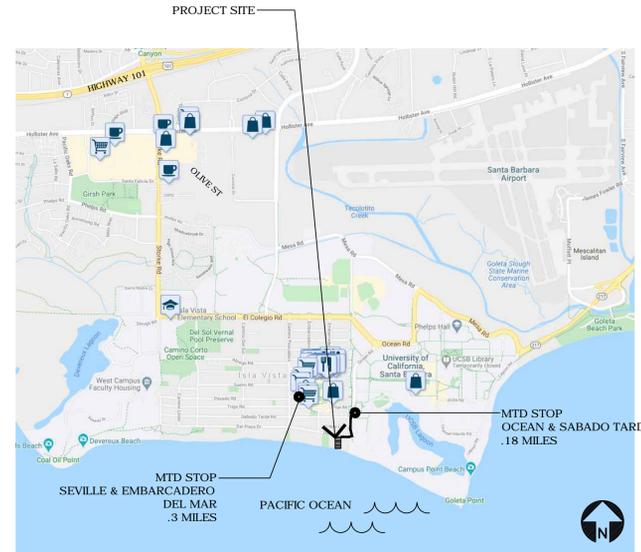
GROUP R-3/TYP E V-N NON-RATED CONSTRUCTION
ALL WORK TO COMPLY WITH THE FOLLOWING CODES:
2019 CALIFORNIA BUILDING CODE (C.B.C.)
2019 CALIFORNIA RESIDENTIAL CODE (TWO UNITS/ MAX 3 STORIES)
2019 CALIFORNIA PLUMBING CODE
2019 CALIFORNIA MECHANICAL CODE
2019 CALIFORNIA ELECTRICAL CODE
2019 CALIFORNIA FIRE CODE
2019 CALIFORNIA ENERGY CODE
& SBCO TITLE II COASTAL ZONING ORDINANCE

NO FIRE SPRINKLERS PROPOSED OR REQUIRED
(EXISTING RESIDENCE DOES NOT HAVE FIRE SPRINKLERS)

SHEET INDEX

ARCHITECTURAL	
A 1.0	PROJECT DATA & NOTES
A 1.1	SITE PLAN
A 2.0	EXISTING AND PROPOSED FIRST FLOOR PLAN
A 2.1	EXISTING 2ND FLOOR PLAN, BUILDING SECTION
A 3.0	EXTERIOR ELEVATIONS
T 1	TITLE 24 (RMS-1 AND MANDATORY MEASURES)
T 2	TITLE 24 (CF1R SHEETS)

VICINITY MAP



PROJECT DATA

SCOPE OF WORK

CONVERT AN EXISTING 325 NET SF (350 GROSS SF) ATTACHED GARAGE OF AN EXISTING SFD TO A STUDIO ACCESSORY DWELLING UNIT. PURSUANT TO GOV CODE 65852.2 POST JAN 1, 2020. WORK INCLUDES ADDING KITCHEN AND BATHROOM FACILITIES AND REPLACING EXISTING GARAGE DOOR WITH NEW WINDOWS. WATER SERVICE IS PROVIDED BY GOLETA WATER DISTRICT AND SANITARY BY GOLETA SANITARY WEST. EXISTING SCE ELECTRICAL METER SERVES BOTH UNIT AND HOUSE.

PROJECT ADDRESS: 6515 DL PLAYA DRIVE

APN: 075-223-024

ZONE: SR-M-8

GENERAL PLAN:

SLOPE: 12% (PER CITY GIS)

LOT SIZE: 6,244 SQ. FT / .14 ACRES

HIGH FIRE: NO

FLOOD ZONE: NO

GRADING: NONE PROPOSED

SWMP: N/A

FLOOR AREAS:	NET	GROSS
(E) 2-STORY RESIDENCE		
1ST FLOOR	900 SF	975 SF
2ND FLOOR	1,275 SF	1,370 SF
TOTAL HABITABLE	2,175 SF	2,345 SF
(E) ATTACHED GARAGE	339 SF	370 SF
(E) SITE TOTAL	2,514 SF	2,715 SF
CONVERT (E) GARAGE TO ACCESSORY DWELLING UNIT	339 SF	370 SF
TOTAL PROPOSED FLOOR AREA	NO CHANGE	

PARKING	EXISTING	PROPOSED	REQUIRED
PRIMARY RESIDENCE	2 COVERED 2 UNCOVERED	0 COVERED 2 UNCOVERED	0 REQUIRED PER GOV CODE 65852.2 POST JAN 1, 2020
ADU	N/A	0 COVERED	0 REQUIRED*
*PARKING REQUIREMENT FOR ADU IS EXEMPT PER GOV CODE 65852.2 POST JAN 1, 2020 BASED ON PROXIMITY TO PUBLIC TRANSIT. SEE VICINITY MAP			
SITE TOTAL:	4	2 UNCOVERED	0 REQUIRED

MICHELLE MCTOLDRIDGE
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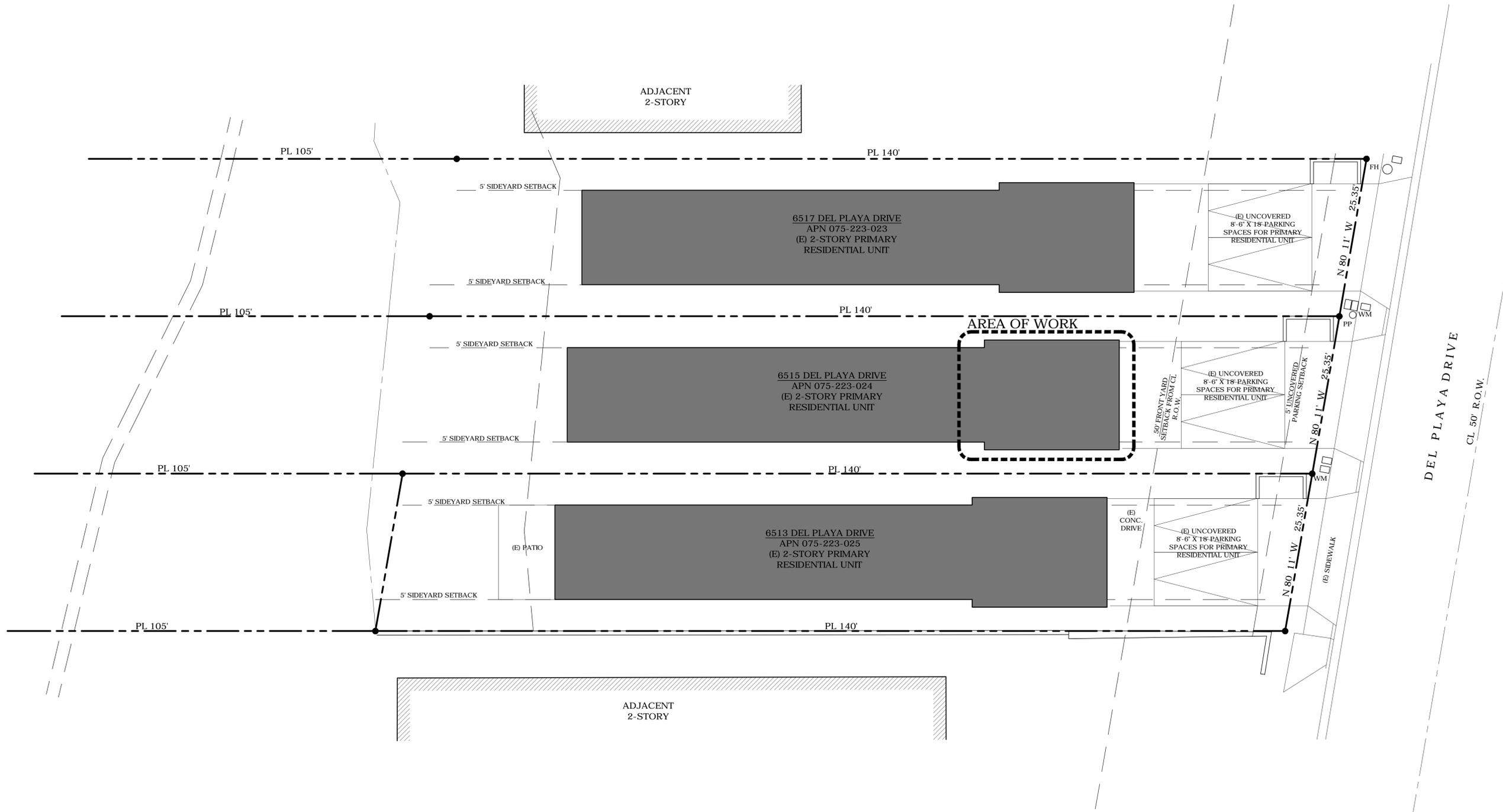
**WILLIAMS ADU
GARAGE CONVERSION**

6515 DEL PLAYA DRIVE
SANTA BARBARA, CA

A1.0

DATE: BLDG 06.10.20

RESERVED FOR APPROVAL STAMPS



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



MICHELLE MCTOLDRIDGE
LICENSED ARCHITECT

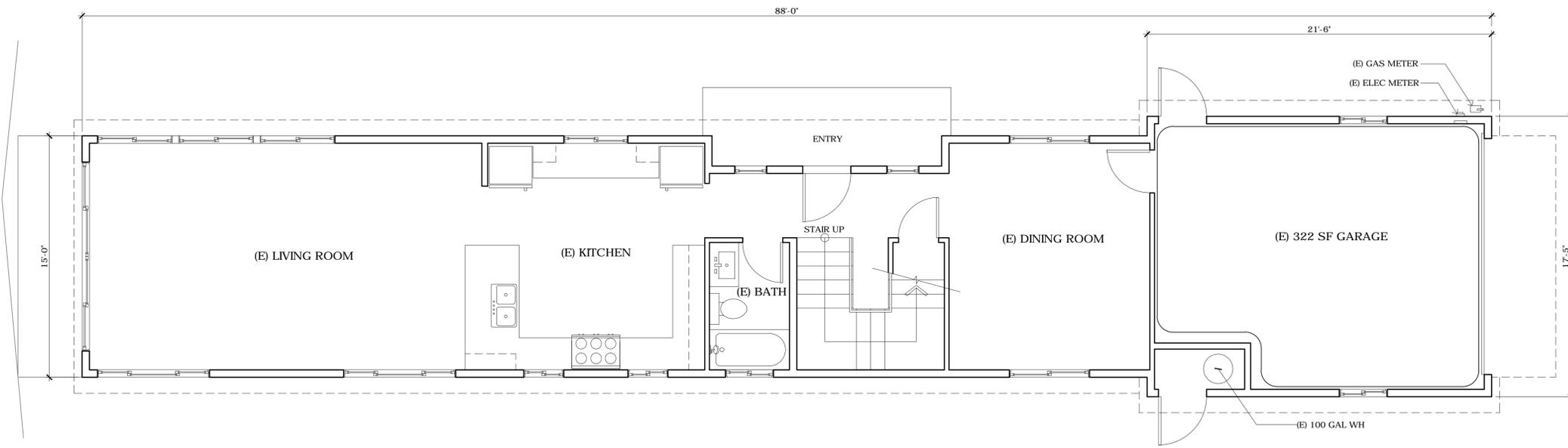


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GARAGE CONVERSION
6515 DEL PLAYA DRIVE
SANTA BARBARA, CA

A1.1

DATE: BLDG 06.10.20



EXISTING FIRST FLOOR PLAN

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



PLAN LEGEND

- EXISTING WALLS
- NEW WALLS
- HARDWIRED SMOKE DETECTOR PER SEC R314.3
- CARBON MONOXIDE (CO2) DETECTOR PER CRC R315.1 & R315.2 NOTE: CO2 DETECTOR CAN BE SOLELY BATTERY OPERATED WHEN INSTALLED IN EXISTING BUILDINGS
- PANASONIC FV-05 WHISPER SOFT CEILING FAN, FAN TO HAVE A MIN. EXHAUST RATE OF 50 CFM INTERMITTENT AND DUCTED TO EXTERIOR OF BUILDING. FAN SHALL BE CONTROLLED BY A READILY ACCESSIBLE HUMIDISTAT AND IS CAL GREEN & ENERGY STAR COMPLIANT. EXHAUST FANS IN ROOMS WITH BATHING FIXTURES (TUB AND/OR SHOWER) TO BE PROVIDED WITH PANASONIC CONDENSATION SENSOR MODULE
- ELECTRICAL RECEPTICAL NOTE: PROVIDE TAMPER RESISTANT OUTLETS IN ALL REMODELED AND NEW AREAS PER CEC 406.12 (EXCEPTION WHEN LOCATED > 5.5' WITHIN A CABINET OR CUPBOARD OR WHEN PART OF A LUMINAIRE OR APPLIANCE.
- GROUND FAULT CIRCUIT INTERRUPTER PROTECTED OUTLET AS REQUIRED PER CEC 210.8 NOTE: PROVIDE TAMPER RESISTANT OUTLETS IN ALL REMODELED AND NEW AREAS PER CEC 406.12 (SEE EXCEPTIONS)

NOTE: ALL NEW LIGHT FIXTURES ARE TO BE HIGH EFFICACY PER 2019 TITLE 24 REQUIREMENTS. SEE ADDITIONAL ELECTRICAL NOTES (THIS PAGE) FOR DETAILED REQUIREMENTS AND INFORMATION

RECESSED LIGHTS

THE FOLLOWING LED RECESSED FIXTURES DO NOT HAVE SCREW BASED SOCKETS, AND SHALL BE APPROVED FOR ZERO CLEARANCE INSULATION COVER IC RATED BY UL OR OTHER TESTING LAB RECOGNIZED BY THE BUILDING OFFICIAL AND SHALL BE AIR TIGHT TO SHOW AIR LEAKAGE LESS THAN 2.0 DFM AT 0.011 PSI IN ACCORDANCE WITH ASTM E283 AND SEALED WITH A GASKET OR CAULK BETWEEN HOUSING AND CEILING PER CEC 150K.

- 3" - 4" LED ROUND RECESSED DOWNLIGHT
- SCREW BASED LIGHTS**
- SCREW BASED LIGHTS ARE ACCEPTABLE IF THEY MEET THE FOLLOWING REQUIREMENTS:
 - A. NOT A RECESSED DOWN LIGHT
 - B. LAMP COMPLIES WITH REF. JOINT APPENDIX JA8
 - C. LAMP IS MARKED WITH 'JA8-2016' OR 'JA-82016E'
- SURFACE MOUNT FIXTURE/ WALL SCONCE.

LIGHTING ABBREVIATIONS:

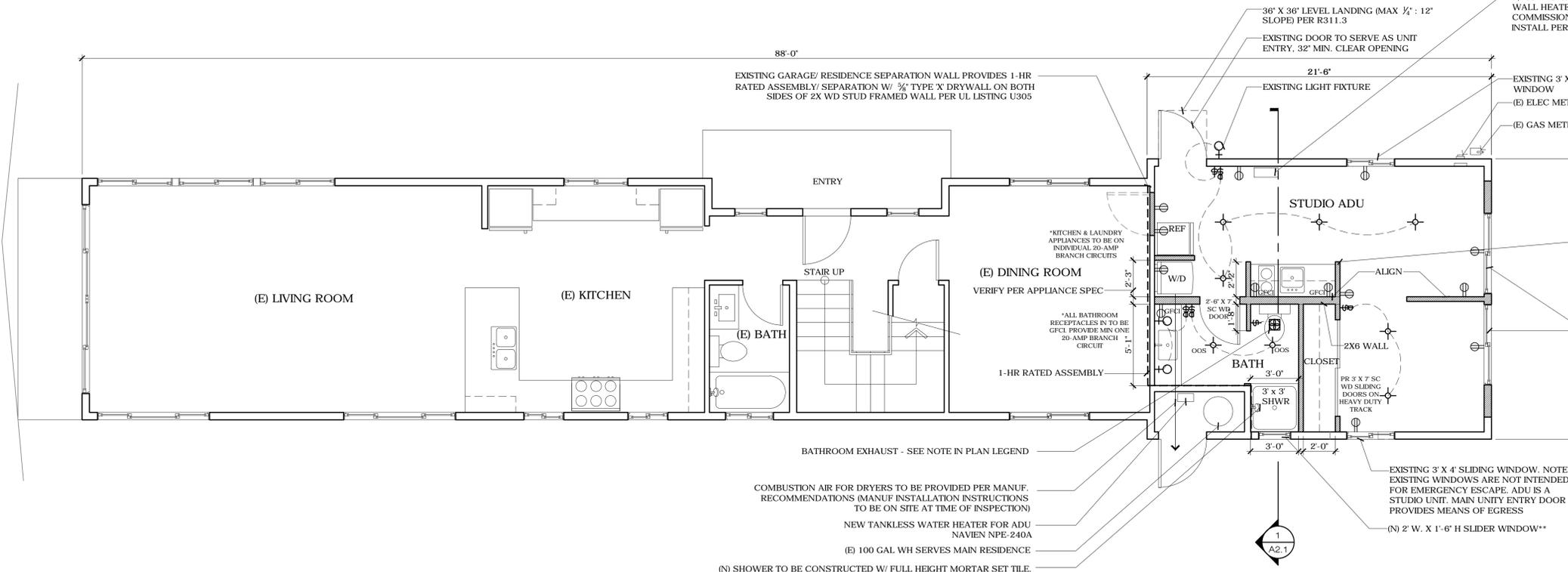
- WP LENSED/ WET LOCATION RATED
- OOS ON/ OFF OCCUPANCY SENSOR (SEE LIGHTING NOTES)

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PROPOSED FIRST FLOOR PLAN

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



PLUMBING FIXTURE REQUIREMENTS FOR PROPOSED ADU FIXTURES (PER 2019 CGBC):

- TOILETS: NOT TO EXCEED 1.28 GALLONS PER FLUSH
- LAV FAUCETS: FLOW RATES NOT TO EXCEED 1.2 GPM @ 60 PSI
- COMBINED FLOWRATE OF ALL SHOWER HEADS SERVING A SINGLE SHOWER STALL SHALL NOT EXCEED 2.0 GPM @ 80 PSI
- MULTIPLE SHOWER HEADS IN SAME SHOWER COMBINED FLOW RATE OF 2.0 GPM @ 80 PSI OR DESIGNED SO THAT ONLY ONE SHOWER HEAD/ HAND HELD CAN BE USED AT A TIME
- KITCHEN FAUCET MAX FLOW RATE SHALL NOT EXCEED 1.8 GPM @ 60 PSI (MAY TEMPORARILY INCREASE THE FLOW TO ABOVE MAX. RATE BUT NOT EXCEED 2.2 GPM AT 60 PSI AND MUST DEFAULT TO A MAX FLOW F 1.8 GPM AT 60 PSI)

TYPICAL NEW FULL HEIGHT, NON-BEARING PARTITION WALLS 2X4 WD STUDS @ MIN 16" O.C. W/ 1/2" TYPE 'X' GYP BD FINISH

ALL HIGH EFFICACY RECESSED LED LIGHT FIXTURES - SEE LEGEND ABOVE

**NOTE: NEW WINDOWS TO HAVE A MAX U-FACTOR OF .32 AND MAX SHGC .25. NFRC THERMAL PERFORMANCE LABELS SHALL REMAIN ON WINDOWS UNTIL FINAL INSPECTION

WINDOW INSTALLATION NOTES:

WINDOW/ DOOR OPENING FLASHING TO BE A MINIMUM OF 9" WIDE COPPER KRAFT PAPER LAMINATE BSK GRADE 714 ALUM. BUILDING PAPER VAPOR BARRIER GRACE 'VYCOR PLUS' OR SIMILAR MATERIAL FLASHING SHALL PROVIDE 4-HOUR PROTECTION FROM WATER PENETRATION PER ASTM D-779 AND SHALL COMPLY WITH DETAILS IN ASTM E-2112
INSTALL FLASHING AS REQUIRED BY WINDOW AND FLASHING MANUFACTURER
SEAL WINDOW/ DOOR OPENING WITH APPROVED CAULKING AS REQUIRED BY WINDOW MANUFACTURER AND PER GOOD PRACTICE
PATCH AND REPAIR ANY INTERRUPTION TO EXISTING OR NEW WEATHER-RESISTIVE BARRIER OVER ANY EXTERIOR WALL WHERE WORK IS PERFORMED

NEW WINDOW INSTALLATION SEQUENCE

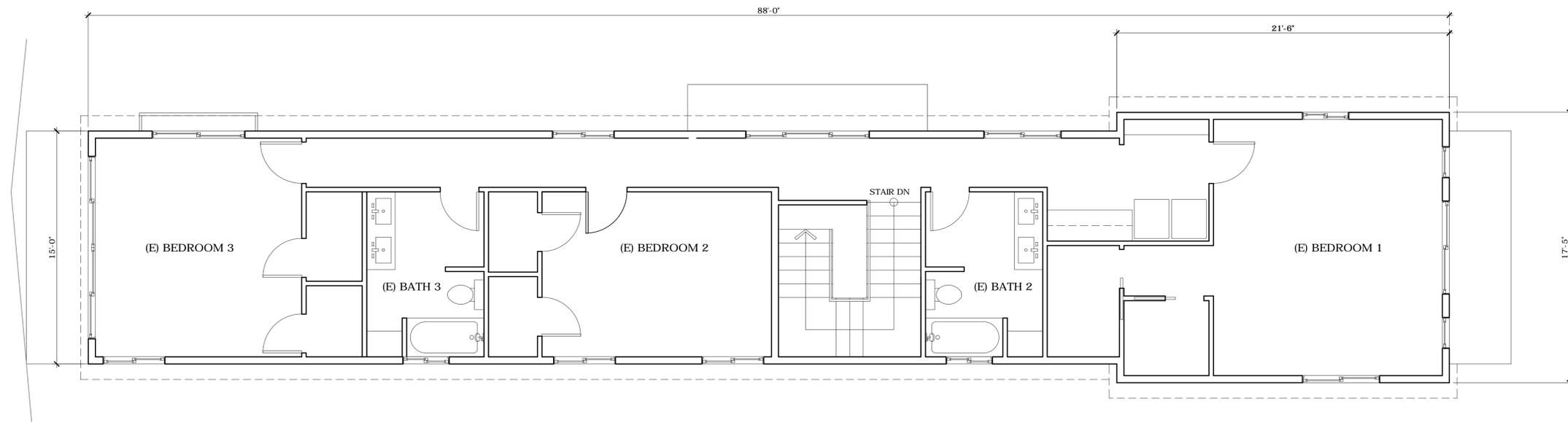
1. INSTALL SILL FLASHING
2. INSTALL JAMB FLASHING
3. INSTALL WINDOW. ALLOW BUILDING PAPER TO BE INSTALLED BELOW WINDOW FRAME
4. INSTALL HEAD FLASHING OVER WINDOW HEAD

- *KITCHEN & LAUNDRY APPLIANCES TO BE ON INDIVIDUAL 20-AMP BRANCH CIRCUITS
- *ALL BATHROOM RECEPTACLES IN TO BE GFCI. PROVIDE MIN ONE 20-AMP BRANCH CIRCUIT
- 1-HR RATED ASSEMBLY
- BATHROOM EXHAUST - SEE NOTE IN PLAN LEGEND
- COMBUSTION AIR FOR DRYERS TO BE PROVIDED PER MANUF. RECOMMENDATIONS (MANUF INSTALLATION INSTRUCTIONS TO BE ON SITE AT TIME OF INSPECTION)
- NEW TANKLESS WATER HEATER FOR ADU NAVIEN NPE-240A
- (E) 100 GAL. WH SERVES MAIN RESIDENCE
- (N) SHOWER TO BE CONSTRUCTED W/ FULL HEIGHT MORTAR SET TILE. (ALTERNATIVE WALL FINISH AND TILE INSTALLATION ACCEPTABLE IF PROVIDES A CONTINUOUS WATERPROOF ASSEMBLY THAT MITIGATES ANY MOISTURE PENETRATION INTO WALL CONSTRUCTION)
- GLASS ENCLOSURE: DOOR AND PANELS TO BE CONSTRUCTED OF APPROVED SAFETY GLAZING (3/8" MIN. TEMPERED) WRAP WINDOW OPENING W/ WP MEMBRANE. CONTINUE TILE OVER SLOPED SILL OF WINDOW - NO WOOD CASING TO BE INSTALLED AT WET LOCATIONS

**WILLIAMS ADU
GARAGE CONVERSION**
6515 DEL PLAYA DRIVE
SANTA BARBARA, CA

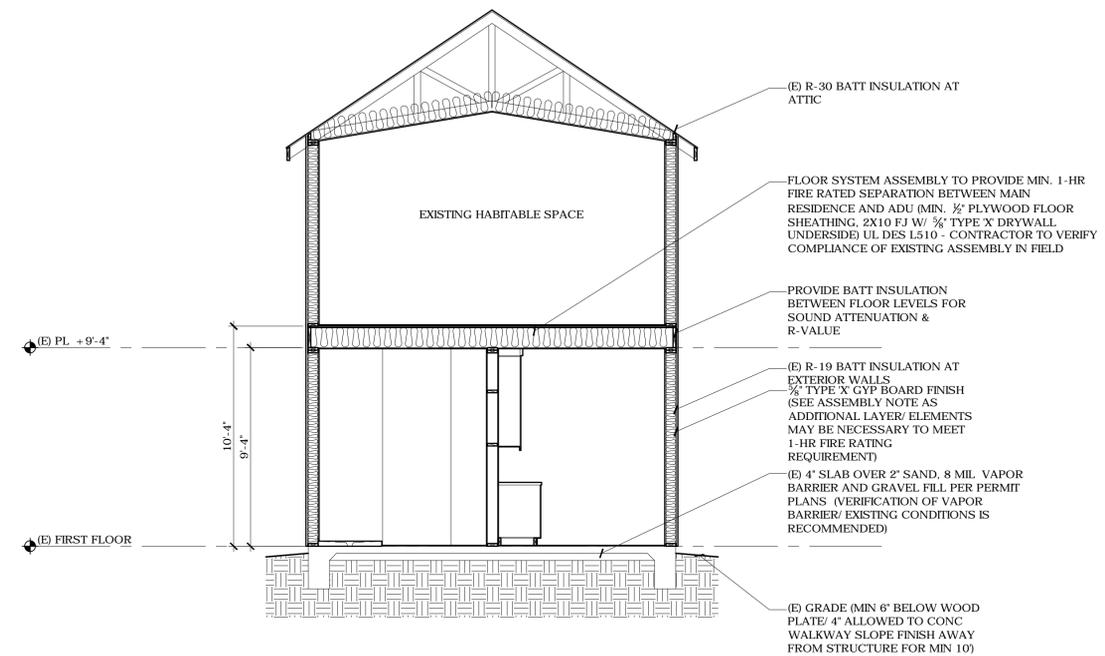
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DATE: BLDG 06.10.20



EXISTING SECOND FLOOR PLAN (FOR REFERENCE ONLY - NO WORK PROPOSED)

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



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

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6515 DEL PLAYA DRIVE
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DATE: BLDG 06.10.20



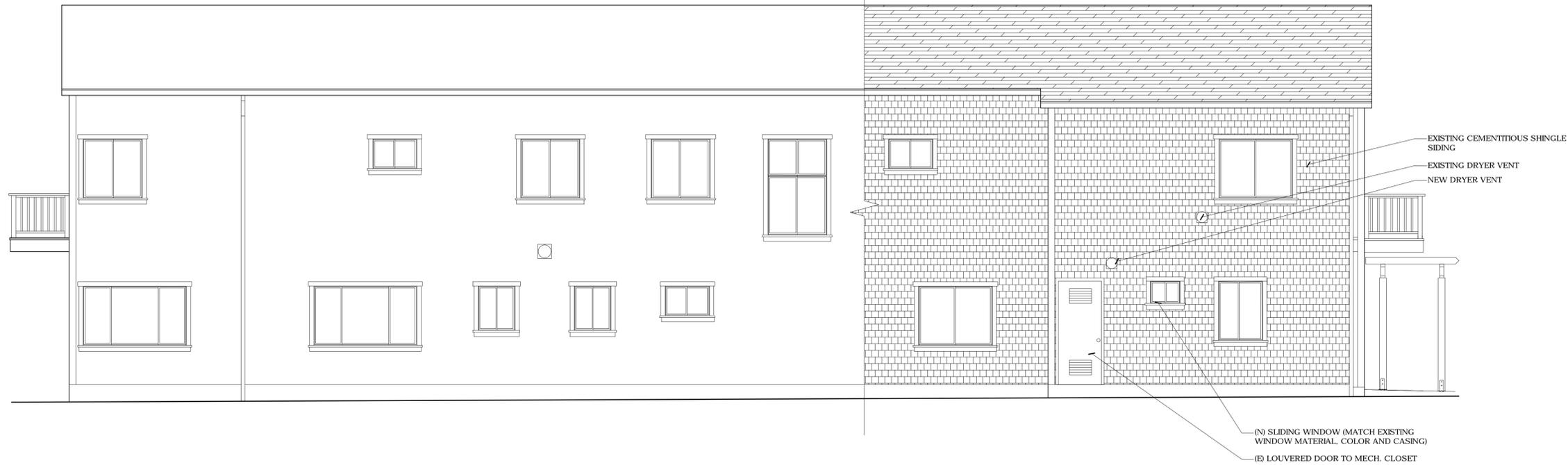
WEST ELEVATION
(NO WORK PROPOSED)



EXISTING NORTH ELEVATION



PROPOSED NORTH ELEVATION



PROPOSED EAST ELEVATION

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WILLIAMS ADU
GARAGE CONVERSION
6515 DEL PLAYA DRIVE
SANTA BARBARA, CA

CERTIFICATE OF COMPLIANCE

Project Name: 6515 Del Playa Residence ADU
 Calculation Description: Title 24 Analysis

Calculation Date/Time: 2020-06-29T15:23:20-07:00
 Input File Name: T24SA-2001_6515.rbd19x

CF1R-PRF-01E

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GENERAL INFORMATION	
01	Project Name: 6515 Del Playa Residence ADU
02	Run Title: Title 24 Analysis
03	Project Location: 6515 Del Playa Drive
04	City: Santa Barbara
05	Standards Version: 2019
06	Zip code: 93109
07	Software Version: EnergyPro 8.1
08	Climate Zone: 6
09	Front Orientation (deg/ Cardinal): 270
10	Building Type: Single family
11	Number of Dwelling Units: 1
12	Project Scope: AdditionOnly
13	Number of Bedrooms: 4
14	Addition Cond. Floor Area (ft²): 370
15	Number of Stories: 1
16	Existing Cond. Floor Area (ft²): 2345
17	Fenestration Average U-factor: 0.44
18	Total Cond. Floor Area (ft²): 2715
19	Glazing Percentage (%): 12.70%
20	ADU Bedroom Count: 1
21	ADU Conditioned Floor Area: 370
22	Is Natural Gas Available?: Yes

Addition Alone Project Analysis Parameters					
01	02	03	04	05	06
Existing Area (excl. new addition) (ft²)	Addition Area (excl. existing) (ft²)	Total Area (ft²)	Existing Bedrooms	Addition Bedrooms	Total Bedrooms
2345	370	2715	3	1	4

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	Building does not incorporate Special Features

Registration Number: 220-P010116421A-000-000-0000000-0000
 CA Building Energy Efficiency Standards - 2019 Residential Compliance

Registration Date/Time: 2020-06-29 20:07:39
 Report Version: 2019.1.108
 Schema Version: rev 20200101

HERS Provider: CalCERTS Inc.
 Report Generated: 2020-06-29 15:25:06

CERTIFICATE OF COMPLIANCE

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SLAB FLOORS						
01	02	03	04	05	06	07
Name	Zone	Area (ft²)	Perimeter (ft)	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab-on-Grade	First Floor	370	63	None	80%	No

OPAQUE SURFACE CONSTRUCTIONS							
01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-19 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O.C.	R-19	None / None	0.074	Inside Finish: Gypsum Board Cavity / Frame: R-19 in S-1/2 in. (R-18) / 2x6 Exterior Finish: 3 Coat Stucco
R-19 Floor No Crawspace	Interior Floors	Wood Framed Floor	2x10 @ 16 in. O.C.	R-19	None / None	0.045	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 / 2x10 Ceiling Below Finish: Gypsum Board

BUILDING ENVELOPE - HERS VERIFICATION			
01	02	03	04
Quality Insulation Installation (QII)	Quality Installation 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
Name	System Type	Distribution Type	Water Heater Name (#)	Solar Heating System	Compact Distribution	HERS Verification
DHW Sys 1	Domestic Hot Water (DHW)	Standard Distribution System	DHW Heater 1 (1)	n/a	None	n/a

Registration Number: 220-P010116421A-000-000-0000000-0000
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ENERGY USE SUMMARY				
Energy Use (kTODU/ft²-yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating	4.19	9.36	-5.17	-123.4
Space Cooling	8.99	15.16	-6.17	-68.6
IAQ Ventilation	4.18	4.18	0	0
Water Heating	92.3	80.29	12.01	13
Self Utilization Credit	n/a	0	0	n/a
Compliance Energy Total	109.66	108.99	0.67	0.6

REQUIRED SPECIAL FEATURES
 The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.
 * NO SPECIAL FEATURES REQUIRED

HERS FEATURE SUMMARY
 The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry.
 Building-level Verifications:
 * Indoor air quality ventilation
 * Kitchen range hood
 Cooling System Verifications:
 * -- None --
 Heating System Verifications:
 * -- None --
 HVAC Distribution System Verifications:
 * -- None --
 Domestic Hot Water System Verifications:
 * -- None --

ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft²)	Avg. Ceiling Height	Water Heating System 1	Water Heating System 2
First Floor	Conditioned	Wall Furnace1	370	8	DHW Sys 1	N/A

Registration Number: 220-P010116421A-000-000-0000000-0000
 CA Building Energy Efficiency Standards - 2019 Residential Compliance

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WATER HEATERS													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heating Element Type	Tank Type	# Units	Tank Vol. (gal)	Energy Factor or Efficiency	Input Rating or Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss or Recovery Eff.	1st Hr. Rating or Flow Rate	NEEA Heat Pump Brand or Model	Tank Location or Ambient Condition	Status	Verified Existing Condition
DHW Heater 1	Gas	Consumer Instantaneous	1	0	0.96-UEF	<= 200 kBTU/hr	0	n/a	n/a	n/a	n/a	New	n/a

WATER HEATING - HERS VERIFICATION							
01	02	03	04	05	06	07	08
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Central DHW Distribution	Shower Drain Water Heat Recovery
DHW Sys 1 - 1/1	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 Thermostat Type	Status	Verified Existing Condition	Heating Equipment Count	Cooling Equipment Count
Wall Furnace1	Heating and cooling system other	Heating Component 1	Cooling Component 1	HVAC Fan 1		Non-setback thermostat	New	NA	1	1

HVAC - HEATING UNIT TYPES			
01	02	03	04
Name	System Type	Number of Units	Heating Efficiency
Heating Component 1	Gas wall furnace	1	AFUE-72

Registration Number: 220-P010116421A-000-000-0000000-0000
 CA Building Energy Efficiency Standards - 2019 Residential Compliance

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CF1R-PRF-01E

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OPAQUE SURFACES									
01	02	03	04	05	06	07	08	09	10
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft²)	Window and Door Area (ft²)	Tilt (deg)	Wall Exceptions	Status
N Wall	First Floor	R-19 Wall	270	Front	201	32	90	none	New
E Wall	First Floor	R-19 Wall	0	Left	163	20	90	none	New
S Wall	First Floor	R-19 Wall	90	Back	201	15	90	none	New
W Wall	First Floor	R-19 Wall	180	Right	28	0	90	none	New
Habitable Space Above	First Floor	R-19 Floor No Crawspace	n/a	n/a	370	n/a	n/a	n/a	New

FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window	Window	N Wall	Froist	270				12	0.55	Table 110.6-A	0.67	Table 110.6-B	Bug Screen
Window 2	Window	E Wall	Left	0				1	10	0.32	NFRC	0.25	NFRC Bug Screen
Window 3	Window	E Wall	Left	0				1	10	0.32	NFRC	0.25	NFRC Bug Screen
Window 4	Window	S Wall	Back	90				1	3	0.32	NFRC	0.25	NFRC Bug Screen
Window 5	Window	S Wall	Back	90				1	12	0.55	Table 110.6-A	0.67	Table 110.6-B Bug Screen

OPAQUE DOORS			
01	02	03	04
Name	Side of Building	Area (ft²)	U-factor
Entry Door	N Wall	20	0.5

Registration Number: 220-P010116421A-000-000-0000000-0000
 CA Building Energy Efficiency Standards - 2019 Residential Compliance

Registration Date/Time: 2020-06-29 20:07:39
 Report Version: 2019.1.108
 Schema Version: rev 20200101

HERS Provider: CalCERTS Inc.
 Report Generated: 2020-06-29 15:25:06

CERTIFICATE OF COMPLIANCE

Project Name: 6515 Del Playa Residence ADU
 Calculation Description: Title 24 Analysis

Calculation Date/Time: 2020-06-29T15:23:20-07:00
 Input File Name: T24SA-2001_6515.rbd19x

CF1R-PRF-01E

(Page 6 of 7)

HVAC - COOLING UNIT TYPES							
01	02	03	04	05	06	07	08
Name	System Type	Number of Units	Efficiency EER	Efficiency SEER	Zonally Controlled	Multi-speed Compressor	HERS Verification
Cooling Component 1	No Cooling	1			Not Zonal	Single Speed	n/a

HVAC - FAN SYSTEMS			
01	02	03	04
Name	Type	Fan Power (Watts/CFM)	Name
HVAC Fan 1	HVAC Fan	0.58	n/a

IAQ (INDOOR AIR QUALITY) FANS					
01	02	03	04	05	06
Dwelling Unit	IAQ CFM	IAQ Watts/CFM	IAQ Fan Type	IAQ Recovery Effectiveness (%)	SREIAQ Recovery Effectiveness - SRE
Sfam ADU IAQVentRpt	26	0.25	Default	0	n/a

CERTIFICATE OF COMPLIANCE

Project Name: 6515 Del Playa Residence ADU
 Calculation Description: Title 24 Analysis

Calculation Date/Time: 2020-06-29T15:23:20-07:00
 Input File Name: T24SA-2001_6515.rbd19x

CF1R-PRF-01E

(Page 7 of 7)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I, I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Scott Baer Documentation Author Signature: Scott Baer

Company: MEC Signature Date: 2020-06-29 15:34:30

Address: 1616 Anacapa St. CEAT/HERS Certification Identification (if applicable):

City/State/Zip: Santa Barbara, CA 93101 Phone: 805-957-4632 206

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
 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.
 3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Responsible Designer Name: Michelle McToldridge Responsible Designer Signature: Michelle McToldridge

Company: Shelter Architecture Date Signed: 2020-06-29 20:07:39

Address: 540 Barker Pass License: C29526

City/State/Zip: Santa Barbara, CA 93108 Phone: 805-895-3879

Digitally signed by CalCERTS. 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: 220-P010116421A-000-000-0000000-0000
 CA Building Energy Efficiency Standards - 2019 Residential Compliance

Registration Date/Time: 2020-06-29 20:07:39
 Report Version: 2019.1.108
 Schema Version: rev 20200101

HERS Provider: CalCERTS Inc.
 Report Generated: 2020-06-29 15:25:06

SHELTER
 Architecture
 Urban design

MICHELLE MCTOLDRIDGE
 LICENSED ARCHITECT



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WILLIAMS ADU
 GARAGE CONVERSION
 6515 DEL PLAYA DRIVE
 SANTA BARBARA, CA

T 2

DATE: BLDG 06.10.20

DEL PLAYA RESIDENCE - ADU

(EXISTING GARAGE CONVERSION)
6517 DEL PLAYA DRIVE
ISLA VISTA, CA

SHELTER
a r c h i t e c t u r e
u r b a n d e s i g n

MEP GENERAL NOTES

ELECTRICAL NOTES:

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2019 CALIFORNIA ELECTRICAL CODE (CEC) AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- CONTRACTOR TO FURNISH AND INSTALL ALL EQUIPMENT, MATERIALS AND FIXTURES UNLESS OTHERWISE NOTED.
- ALL ELECTRICAL EQUIPMENT AND FIXTURES SHALL BE LISTED AND APPROVED BY A RECOGNIZED TESTING LAB AND INCLUDE APPROPRIATE LABELS
- GROUNDING AND BONDING SHALL BE PER CODE
- ALL CONDUIT RUNS SHALL INCLUDE A CODE SIZED GREEN GROUND WIRE
- FEEDER CONDUCTORS SHALL BE IN CONDUIT
- CONDUCTORS SHALL BE COPPER WITH APPROPRIATE INSULATION
- CONVENIENCE OUTLETS SHALL BE LOCATED AND SPACED PER 2019 CEC 210.52. 11. WITH A RECEPTACLE REQUIRED AT ANY WALL SPACE 2' OR WIDER, NOT MORE THAN 6' FROM OPENINGS AND NOT MORE THAN 12' ON CENTER.
- ARC-FAULT CIRCUIT INTERRUPTER REQUIRED WHERE BRANCH CIRCUITS ARE MODIFIED, REPLACED OR EXTENDED THAT SUPPLY 120-V. SINGLE PHASE, 15 AND 20 AMP OUTLETS IN BEDROOMS, FAMILY ROOMS, LIVING ROOMS, DINING ROOMS, CLOSETS, AND DINING ROOMS, CLOSETS AND HALLWAYS.
- ALL OUTLETS SERVING KITCHEN COUNTERTOP SHALL BE GROUND FAULT CIRCUIT INTERRUPTER PROTECTED (GFI PER CEC 210.8(A)(1))
- KITCHEN COUNTER OUTLETS SHALL BE 4'-0" O.C. MAX. WITH NO POINT ALONG THE WALL MORE THAN 2'-0" FROM AN OUTLET (EXCEPT AT SINK) PER CEC 210.52 (C)(1)
- KITCHEN ISLANDS TO BE PROVIDED WITH AT LEAST ONE RECEPTACLE OUTLET PER CEC 210.52(C)(2)
- ALL NON-LOCKING TYPE 125-VOLT 15 & 20 AMP RECEPTACLES SHALL BE LISTED TAMPER RESISTANT 2019 CEC 406.12 EXCEPTIONS 1) THOSE MORE THAN 66" ABOVE THE FLOOR 2) PART OF A LUMINAIRE OR APPLIANCE 3) SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES THAT ARE NOT EASILY MOVED AND LOCATED WITHIN DEDICATED SPACE AND ARE CHORD AND PLUG CONNECTED AS PER CEC 400.7 OR 4) NON-GROUNDING RECEPTACLES USED FOR REPLACEMENTS AS PERMITTED IN CEC 406.4 (D)(2)(a)
- PROVIDE A MIN. OF 2 SEPARATE 20 AMP CIRCUITS TO KITCHEN PER CEC 210.52(B)
- BATHROOM RECEPTACLE OUTLETS TO BE GFI PROTECTED PER CEC 210.8(A)(6)
- PROVIDE A MIN. OF 1 SEPARATE 20 AMP CIRCUIT TO EA. BATHROOM PER CEC-10(C-3)
- GFCI TYPE OUTLETS REQUIRED IN BATHROOMS, KITCHEN COUNTERTOPS, PRIVATE GARAGES AND EXTERIOR RECEPTACLES PER 2019 CEC SECTION 210.8.

LIGHTING NOTES:

ALL NEW FIXTURES ARE TO BE HIGH EFFICACY PER 2019 TITLE 24 REQUIREMENTS PER NOTES BELOW AND ADDITIONAL NOTES THIS SHEET
THE FOLLOWING LIGHTING IS HIGH EFFICACY:
PIN BASED LINEAR FLUORESCENT, PIN BASED COMPACT FLUORESCENT, PULSE START METAL HALIDE, HIGH PRESSURE SODIUM, GU-24 (OTHER THAN LED), INSEPARABLE SOLID STATE LUMINAIRES (SSL) INSTALLED OUTDOORS OR INSEPARABLE SSL LUMINAIRES WITH COLORED LIGHT SOURCES FOR DECORATIVE PURPOSES.
THE FOLLOWING LAMPS AND LIGHT SOURCES ARE HIGH EFFICACY IF THEY ARE JOINT APPENDIX JA8-CERTIFIED:
JA-8 CERTIFIED LAMPS AND LIGHT SOURCES ARE MARKED AS 'JA8-2016' OR 'JA82016-E'. THESE FIXTURES INCLUDE: LED LUMINAIRES WITH INTEGRAL SOURCES THAT ARE CERTIFIED BY THE ENERGY COMMISSION, SCREW BASED LED LAMPS (A-LAMPS, PAR LAMPSES, ETC), PIN-BASED LED LAMPS (MR-16, AR-111, ETC) GU-24 BASED LED LIGHT SOURCES AND OTHER LUMINAIRES.

AND A DIMMER OR VACANCY SENSORS SHALL CONTROL ALL LUMINAIRES REQUIRED TO HAVE LIGHT SOURCES COMPLIANT WITH REFERENCE JOINT APPENDIX JA8

A MINIMUM OF ONE LIGHT IN BATHROOMS, LAUNDRY ROOMS, UTILITY ROOMS AND GARAGES TO BE CONTROLLED BY A MANUAL ON/AUTOMATIC OFF OCCUPANCY SENSOR - SEE PLAN BELOW FOR IDENTIFICATION OF FIXTURES THAT ARE DESIGNATED TO MEET THIS REQUIREMENT - OOS"

PLUMBING NOTES:

- ALL NEW INDOOR & OUTDOOR WATER USE TO COMPLY WITH 2019 CALGREEN STANDARDS
- DOMESTIC HOT WATER PIPING SYSTEM SHALL BE INSULATED PER 2019 CEC SEC 150.00(C) 7.
- PRESSURE BALANCING OR THERMOSTATIC MIXING VALVES REQUIRED AT NEW SHOWERS PER CPC 420.0
- WATER HEATERS INSTALLED IN BEDROOMS AND BATHROOMS SHALL COMPLY WITH 2019 CPC SECTION 505
- ALL FIXTURES COMING INTO CONTACT WITH POTABLE WATER MUST BE LEAD FREE

PLUMBING FIXTURE REQUIREMENTS PER 2019 CALIFORNIA GREEN BLDG CODE:

- WATER CLOSETS/TOILETS: NOT TO EXCEED 1.28 GALLONS PER FLUSH
- LAVATORY FAUCETS: FLOW RATES NOT TO EXCEED 1.2 GPM @ 60 PSI
- COMBINED FLOWRATE OF ALL SHOWER HEADS SERVING A SINGLE SHOWER STALL SHALL NOT EXCEED 2.0 GPM @ 80 PSI OR DESIGNED SO THAT ONLY ONE SHOWER HEAD/ HAND HELD CAN BE USED AT A TIME
- KITCHEN FAUCET MAX FLOW RATE SHALL NOT EXCEED 1.8 GPM @ 60 PSI (MAY TEMPORARILY INCREASE THE FLOW TO ABOVE MAX. RATE BUT NOT EXCEED 2.2 GPM AT 60 PSI AND MUST DEFAULT TO A MAX FLOW F 1.8 GPM AT 60 PSI)

GAS WATER HEATER NOTES:

- PROVIDE A CAT II OR IV VENT OR TYPE B VENT W/ STRAIGHT PIPE BTWN THE OUTSIDE TERMINATION AND THE SPACE WHERE THE WATER HEATER IS INSTALLED
- A CONDENSATE DRAIN THAT IS NO MORE THAN 2" HIGHER THAN THE BASE OF THE INSTALLED WATER HEATER AND ALLOWS NATURAL DRAINING WITHOUT PUMP ASSISTANCE
- GAS SUPPLY LINE WITH A CAPACITY OF AT LEAST 200,000 BTU

HVAC NOTES:

- PROVIDE NATURAL VENTILATION A MINIMUM OF 4% OF FLOOR AREA PER CBC 1203.4.1
- BATHROOMS CONTAINING A SHOWER OR TUB SHALL BE MECHANICALLY VENTED WITH AN EXHAUST FAN OF 50 CFM. (20 CFM FOR CONTINUOUS OPERATION).
- EXHAUST FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENT SYSTEM FANS MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE.
- INTERIOR SPACES INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH ACTIVE OR PASSIVE SPACE-HEATING SYSTEMS CAPABLE OF MAINTAINING A MIN. INDOOR TEMPERATURE OF 68 DEGREES F AT A POINT 3 FEET ABOVE THE FLOOR. 2016 CBC SECTION 1204/ CRC 303.8.
- VENT DRYER TO OUTSIDE WITH 14' MAX. LENGTH INCLUDING A MAX. OF TWO 90 DEGREE BENDS.
- FUEL BURNING EQUIPMENT SHALL BE INSTALLED PER 2019 CPC SEC 304
- ALL EXHAUST AND INTAKE OPENINGS TERMINATING OUTDOORS SHALL BE PROTECTED WITH CORROSION-RESISTANT SCREENS, LOUVERS OR GRILLES WITH OPENINGS OF 1/4" - 1/2" IN ANY DIMENSION PER CRC R303.6

GENERAL NOTES

- THE FOLLOWING NOTES, DETAILS SCHEDULES AND SPECIFICATIONS SHALL APPLY TO ALL PHASES OF THIS PROJECT UNLESS SPECIFICALLY NOTED OTHERWISE. NOTES AND DETAILS ON THE ARCHITECTURAL PLANS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- ALL DRAWINGS ARE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWING AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY APPLICABLE CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE THE OWNER OR ARCHITECT.
- ALL INFORMATION OF EXISTING CONDITIONS SHOWN ON THE PLANS ARE BASED ON BEST PRESENT KNOWLEDGE AVAILABLE BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE SITE. ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- CONTRACTOR SHALL USE WRITTEN DIMENSIONS FROM THE CONTRACT DOCUMENTS. DO NOT SCALE THE PLANS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING AS REQUIRED.
- THE ARCHITECT WILL NOT BE RESPONSIBLE FOR OR HAVE CONTROL OR CHARGE OF THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION DELINEATED IN THESE PLANS.
- THE CONTRACTOR OR HIS/HER AGENTS SHALL SUPERVISE AND DIRECT ALL WORK AND SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES, PROCEDURES AND CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- ALL WORKMANSHIP SHALL CONFORM TO THE BEST PRACTICE PREVAILING IN THE VARIOUS TRADES PERFORMING THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES.
- SEE STRUCTURAL GENERAL NOTES FOR MINIMUM REQUIREMENTS PERTAINING TO, BUT NOT LIMITED TO SOILS, FOUNDATIONS/ CONCRETE, LUMBER/ FRAMING, LATERAL BRACING
- ALL WORK DONE UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH THE 2019 EDITION OF THE CALIFORNIA BUILDING CODE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN AND INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE SAFETY UNTIL THE WORK IS COMPLETED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING ALL DIMENSIONS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND NON-STRUCTURAL ITEMS NOT SHOWN ON STRUCTURAL PLANS.
- ALL SCAFFOLDING AND SHORING SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE INDUSTRIAL SAFETY COMMISSION OF THE STATE OF CALIFORNIA.
- THE CONTRACTOR IS REQUIRED TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT MADE TO BE APPLIED CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE ARCHITECT FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ARCHITECT.
- ALL WATERPROOFING, DRAINAGE, SEALING, OR ANY AND ALL WATER AND/OR MOISTURE RELATED ISSUES ARE THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- ANY DISCREPANCIES OR AMBIGUITIES BETWEEN ON THE DRAWINGS AND/ OR SPECIFICATIONS BETWEEN ACTUAL CONDITIONS FOUND ON SITE, BETWEEN ANY OTHER DRAWING OR SPECIFICATION OR WITHIN THE SAME DRAWING, THEY, CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH WORK.
- NOTE: THE INTENT OF DESIGN CONTAINED IN THESE DRAWINGS IS: ALTERATIONS - ALTHOUGH SOME SHEAR LINES ARE BEING STRENGTHENED, THE BUILDING IS NOT BEING UPGRADED FULLY TO CURRENT CODE. THE ARCHITECT AND ENGINEER ARE NOT RESPONSIBLE FOR FULL CURRENT CODE COMPLIANCE. NO SIGNIFICANT FOUNDATION WORK IS BEING PERFORMED.

HAZARDOUS MATERIALS

ARCHITECT IS NOT RESPONSIBLE OR QUALIFIED TO HANDLE EXISTING HAZARDOUS MATERIALS (I.E. LEAD, ASBESTOS, FORMALDHYDE).

LEAD SAFE WORK PRACTICES AND CONTAINMENT ARE REQUIRED ON ALL STRUCTURES BUILT BEFORE 1978. PRACTICES AND CONTAINMENT APPLY TO ANY KNOWN LEAD-BASED PAINT (PAINT THAT HAS BEEN TESTED) OR ANY AMOUNT OF PRE-1978 PAINT THAT HASN'T BEEN TESTED AS UNTESTED PAINT IS "PRESUMED" LEAD BASED.

OWNERS, MANAGERS, CONTRACTORS AND OTHER INDIVIDUALS WHO PERFORM, RENOVATE, OR PAINT ON PRE-1978 BUILDING MUST COMPLY WITH THE ENVIRONMENTAL PROTECTION AGENCY (EPA) CERTIFICATION, TRAINING, AND SAFE WORK PRACTICE REQUIREMENTS. RENOVATION IS BROADLY DEFINED AS ANY ACTIVITY THAT DISTURBS PAINTED SURFACES AND INCLUDES MOST REPAIR, REMODELING, AND MAINTENANCE ACTIVITIES. THE WORK CAN ONLY BE PERFORMED BY AN INDIVIDUAL WHO HAS BEEN TRAINED AND IS EITHER CERTIFIED OR SUPERVISED BY SOMEONE WHO IS.

APPROVED SORTING AND RECYCLING FACILITY:

APPROVED COUNTY SORTING/RECYCLING FACILITY MUST BE UTILIZED FOR CONSTRUCTION WASTE MANAGEMENT TO COMPLY WITH CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING PROVISIONS OF CALIFORNIA GREEN BUILDING STANDARDS CODE SECTION 4.408.1 (MINIMUM 65% NON-HAZARDOUS MATERIALS RECYCLED AND/OR SALVAGED FOR RE-USE)

MARBORG INDUSTRIES
119 N. QUARANTINA ST SANTA BARBARA, CA
PH: 805.963.1852

CONTACTS

OWNER:

GEORGE & KAREN WILLIAMS 2000 TRUST
173 HOT SPRINGS ROAD
SANTA BARBARA, CA 93108
PHONE: 310-382-6388

TITLE 24 REPORT

MECHANICAL ENGINEERING CONSULTANTS, INC. (M.E.C.)
1616 ANACAPA STREET
SANTA BARBARA, CA 93101
PH: 805-957-4632 X 207

ARCHITECT:

SHELTER ARCHITECTURE & URBAN DESIGN
MICHELLE MCTOLDRIDGE
PO BOX 5755
SANTA BARBARA, CA 93150
PHONE: (805) 895-3879
CA LIC. C29526

CODES

APPLICABLE CODES

GROUP R-3/TYPE V-N NON-RATED CONSTRUCTION
ALL WORK TO COMPLY WITH THE FOLLOWING CODES:
2019 CALIFORNIA BUILDING CODE (C.B.C.)
2019 CALIFORNIA RESIDENTIAL CODE (TWO UNITS/ MAX 3 STORIES)
2019 CALIFORNIA PLUMBING CODE
2019 CALIFORNIA MECHANICAL CODE
2019 CALIFORNIA ELECTRICAL CODE
2019 CALIFORNIA FIRE CODE
2019 CALIFORNIA ENERGY CODE
& SBCO TITLE II COASTAL ZONING ORDINANCE

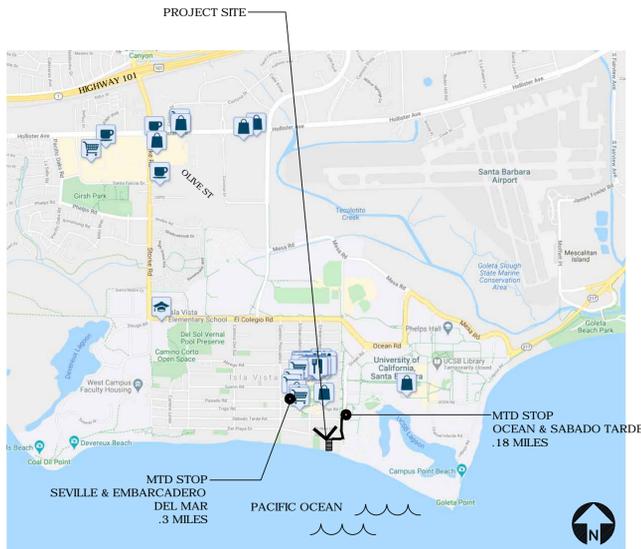
NO FIRE SPRINKLERS PROPOSED OR REQUIRED
(EXISTING RESIDENCE DOES NOT HAVE FIRE SPRINKLERS)

SHEET INDEX

ARCHITECTURAL

A 1.0	PROJECT DATA & NOTES
A 1.1	SITE PLAN
A 2.0	EXISTING AND PROPOSED FIRST FLOOR PLAN
A 2.1	EXISTING 2ND FLOOR PLAN, BUILDING SECTION
A 3.0	EXTERIOR ELEVATIONS
T 1	TITLE 24 (RMS-1 AND MANDATORY MEASURES)
T 2	TITLE 24 (CF1R SHEETS)

VICINITY MAP



PROJECT DATA

SCOPE OF WORK

CONVERT AN EXISTING 325 NET SF (350 GROSS SF) ATTACHED GARAGE OF AN EXISTING SFD TO A STUDIO ACCESSORY DWELLING UNIT. PURSUANT TO GOV CODE 65852.2 POST JAN 1, 2020. WORK INCLUDES ADDING KITCHEN AND BATHROOM FACILITIES AND REPLACING EXISTING GARAGE DOOR WITH NEW WINDOWS. WATER SERVICE IS PROVIDED BY GOLETA WATER DISTRICT AND SANITARY BY GOLETA SANITARY WEST. EXISTING SCE ELECTRICAL METER SERVES BOTH UNIT AND HOUSE.

PROJECT ADDRESS: 6517 DL PLAYA DRIVE

APN: 075-223-023

ZONE: SR-M-8

GENERAL PLAN:

SLOPE: 12% (PER CITY GIS)

LOT SIZE: 6,244 SQ. FT / .14 ACRES

HIGH FIRE: NO

FLOOD ZONE: NO

GRADING: NONE PROPOSED

SWMP: N/A

FLOOR AREAS: NET GROSS

(E) 2-STORY RESIDENCE		
1ST FLOOR	900 SF	975 SF
2ND FLOOR	1,275 SF	1,370 SF
TOTAL HABITABLE	2,175 SF	2,345 SF
(E) ATTACHED GARAGE	339 SF	370 SF
(E) SITE TOTAL	2,514 SF	2,715 SF
CONVERT (E) GARAGE TO ACCESSORY DWELLING UNIT	339 SF	370 SF
TOTAL PROPOSED FLOOR AREA	NO CHANGE	

	EXISTING	PROPOSED	REQUIRED
--	----------	----------	----------

PRIMARY RESIDENCE	2 COVERED 2 UNCOVERED	0 COVERED 2 UNCOVERED	0 REQUIRED PER GOV CODE 65852.2 POST JAN 1, 2020
-------------------	--------------------------	--------------------------	--

ADU	N/A	0 COVERED	0 REQUIRED*
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*PARKING REQUIREMENT FOR ADU IS EXEMPT PER GOV CODE 65852.2 POST JAN 1, 2020 BASED ON PROXIMITY TO PUBLIC TRANSIT. SEE VICINITY MAP

SITE TOTAL:	4	2 UNCOVERED	0 REQUIRED
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MICHELLE MCTOLDRIDGE

LICENSED ARCHITECT



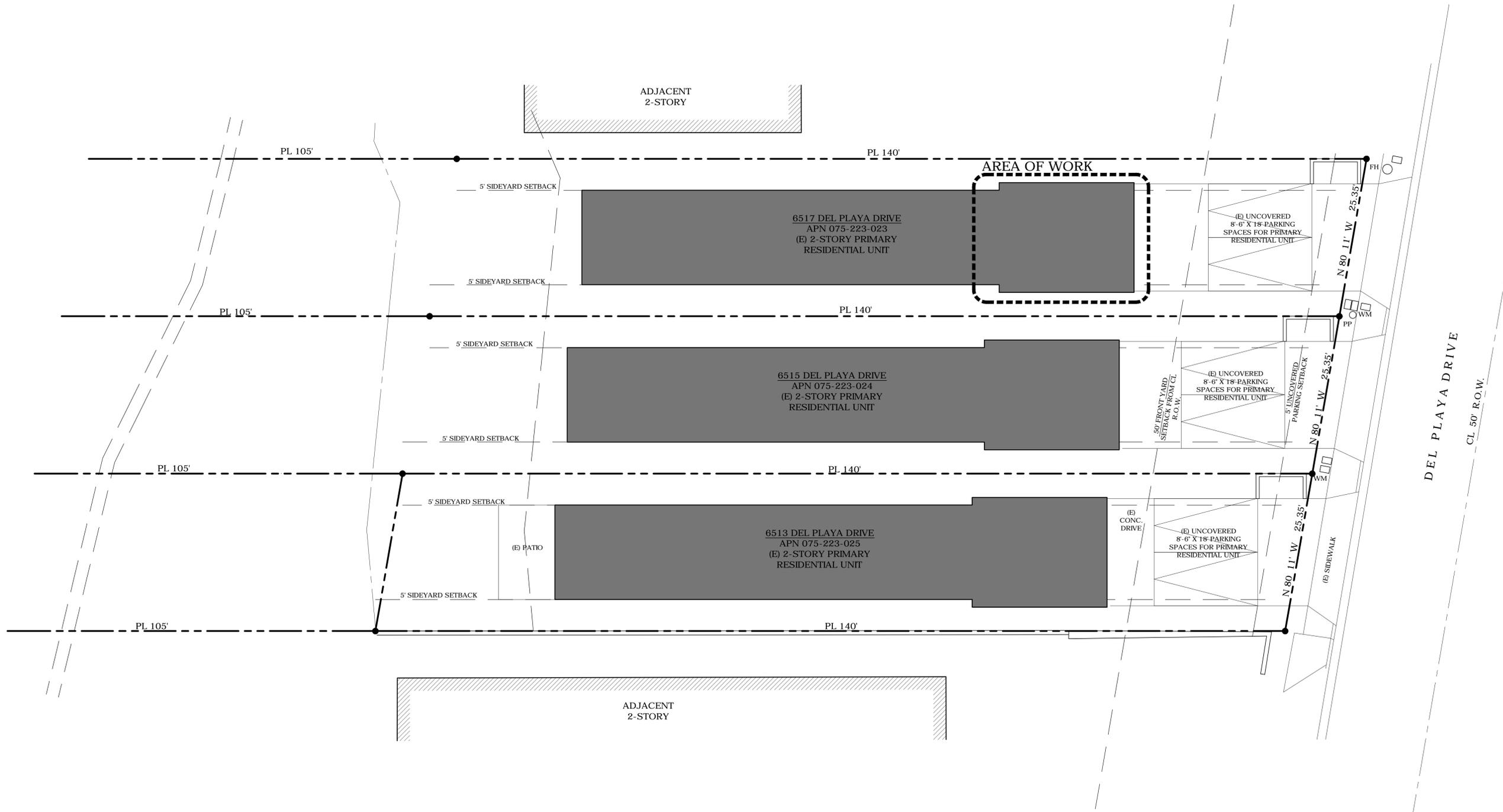
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**WILLIAMS ADU
GARAGE CONVERSION**
6517 DEL PLAYA DRIVE
SANTA BARBARA, CA

A1.0

DATE: BLDG 06.10.20

RESERVED FOR APPROVAL STAMPS



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



MICHELLE MCTOLDRIDGE
LICENSED ARCHITECT

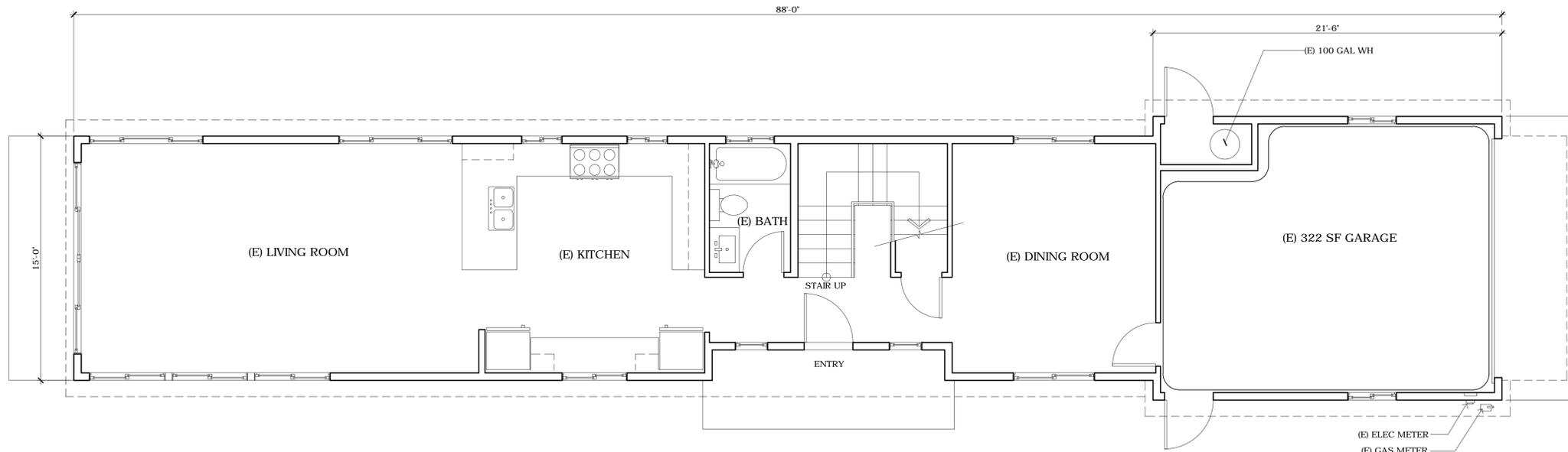


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WILLIAMS ADU
GARAGE CONVERSION
6517 DEL PLAYA DRIVE
SANTA BARBARA, CA

A1.1

DATE: BLDG 06.10.20



EXISTING FIRST FLOOR PLAN

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

PLAN LEGEND

- EXISTING WALLS
- NEW WALLS
- HARDWIRED SMOKE DETECTOR PER SEC R314.3
- CARBON MONOXIDE (CO2) DETECTOR PER CRC R315.1 & R315.2 NOTE: CO2 DETECTOR CAN BE SOLELY BATTERY OPERATED WHEN INSTALLED IN EXISTING BUILDINGS
- PANASONIC FV-05 WHISPER SOFT CEILING FAN, FAN TO HAVE A MIN. EXHAUST RATE OF 50 CFM INTERMITTENT AND DUCTED TO EXTERIOR OF BUILDING. FAN SHALL BE CONTROLLED BY A READILY ACCESSIBLE HUMIDISTAT AND IS CAL GREEN & ENERGY STAR COMPLIANT. EXHAUST FANS IN ROOMS WITH BATHING FIXTURES (TUB AND/OR SHOWER) TO BE PROVIDED WITH PANASONIC CONDENSATION SENSOR MODULE
- ELECTRICAL RECEPTICAL NOTE: PROVIDE TAMPER RESISTANT OUTLETS IN ALL REMODELED AND NEW AREAS PER CEC 406.12 (EXCEPTION WHEN LOCATED > 5.5' WITHIN A CABINET OR CUPBOARD OR WHEN PART OF A LUMINAIRE OR APPLIANCE)
- GROUND FAULT CIRCUIT INTERRUPTER PROTECTED OUTLET AS REQUIRED PER CEC 210.8 NOTE: PROVIDE TAMPER RESISTANT OUTLETS IN ALL REMODELED AND NEW AREAS PER CEC 406.12 (SEE EXCEPTIONS)

NOTE: ALL NEW LIGHT FIXTURES ARE TO BE HIGH EFFICACY PER 2019 TITLE 24 REQUIREMENTS. SEE ADDITIONAL ELECTRICAL NOTES (THIS PAGE) FOR DETAILED REQUIREMENTS AND INFORMATION

RECESSED LIGHTS

THE FOLLOWING LED RECESSED FIXTURES DO NOT HAVE SCREW BASED SOCKETS, AND SHALL BE APPROVED FOR ZERO CLEARANCE INSULATION COVER IC RATED BY UL OR OTHER TESTING LAB RECOGNIZED BY THE BUILDING OFFICIAL AND SHALL BE AIR TIGHT TO SHOW AIR LEAKAGE LESS THAN 2.0 DFM AT 0.011 PSI IN ACCORDANCE WITH ASTM E283 AND SEALED WITH A GASKET OR CAULK BETWEEN HOUSING AND CEILING PER CEC 150K.

- 3" - 4" LED ROUND RECESSED DOWNLIGHT

SCREW BASED LIGHTS

SCREW BASED LIGHTS ARE ACCEPTABLE IF THEY MEET THE FOLLOWING REQUIREMENTS:

- A. NOT A RECESSED DOWN LIGHT
- B. LAMP COMPLIES WITH REF. JOINT APPENDIX JA8
- C. LAMP IS MARKED WITH 'JA8-2016' OR 'JA-82016'

- SURFACE MOUNT FIXTURE/ WALL SCONCE.

LIGHTING ABBREVIATIONS:

- WP LENSED/ WET LOCATION RATED
- OOS ON/ OFF OCCUPANCY SENSOR (SEE LIGHTING NOTES)

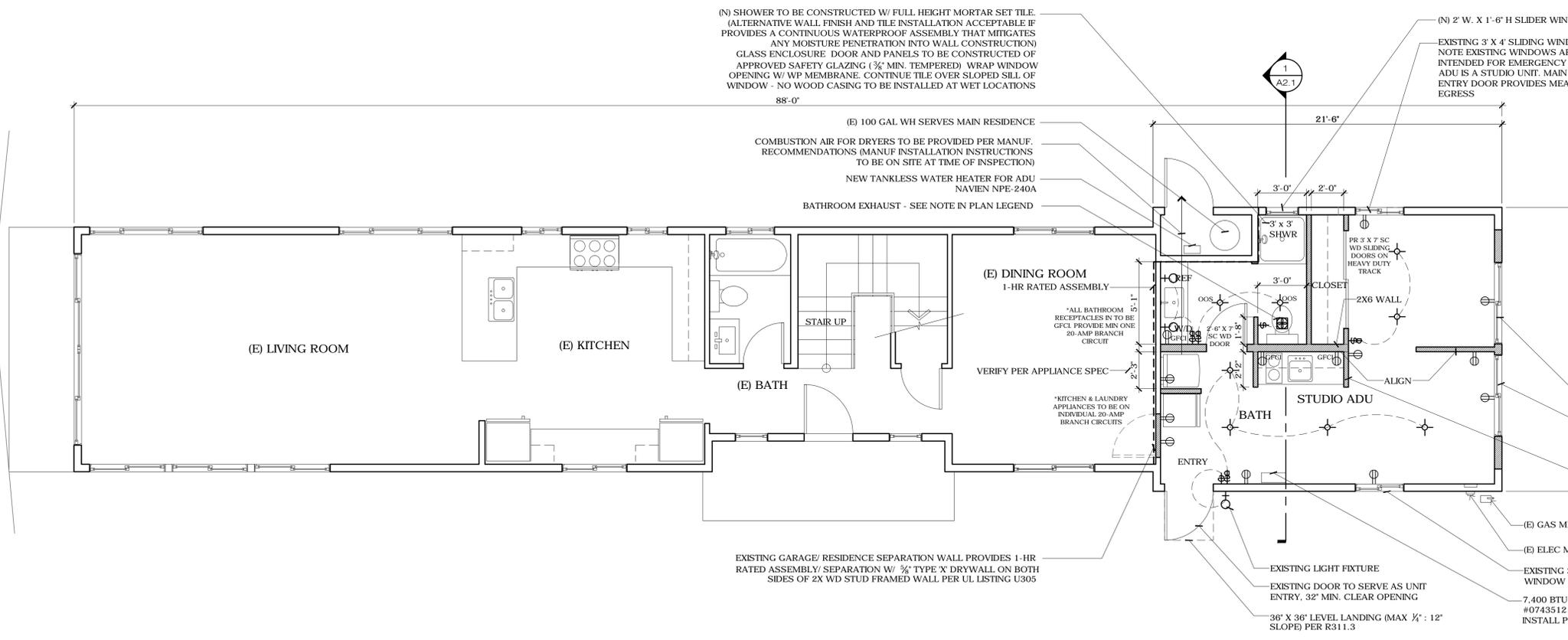
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urban design

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**WILLIAMS ADU
GARAGE CONVERSION**
6517 DEL PLAYA DRIVE
SANTA BARBARA, CA



PROPOSED FIRST FLOOR PLAN

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

WINDOW INSTALLATION NOTES:

WINDOW/ DOOR OPENING FLASHING TO BE A MINIMUM OF 9" WIDE COPPER KRAFT PAPER LAMINATE BSK GRADE 714 ALUM. BUILDING PAPER VAPOR BARRIER GRADE 'VYCOR PLUS' OR SIMILAR MATERIAL FLASHING SHALL PROVIDE 4-HOUR PROTECTION FROM WATER PENETRATION PER ASTM D-779 AND SHALL COMPLY WITH DETAILS IN ASTM E-2112
INSTALL FLASHING AS REQUIRED BY WINDOW AND FLASHING MANUFACTURER
SEAL WINDOW/ DOOR OPENING WITH APPROVED CAULKING AS REQUIRED BY WINDOW MANUFACTURER AND PER GOOD PRACTICE
PATCH AND REPAIR ANY INTERRUPTION TO EXISTING OR NEW WEATHER-RESISTIVE BARRIER OVER ANY EXTERIOR WALL WHERE WORK IS PERFORMED

NEW WINDOW INSTALLATION SEQUENCE

1. INSTALL SILL FLASHING
2. INSTALL JAMB FLASHING
3. INSTALL WINDOW, ALLOW BUILDING PAPER TO BE INSTALLED BELOW WINDOW FRAME
4. INSTALL HEAD FLASHING OVER WINDOW HEAD

PLUMBING FIXTURE REQUIREMENTS FOR PROPOSED ADU FIXTURES (PER 2019 CGBC):

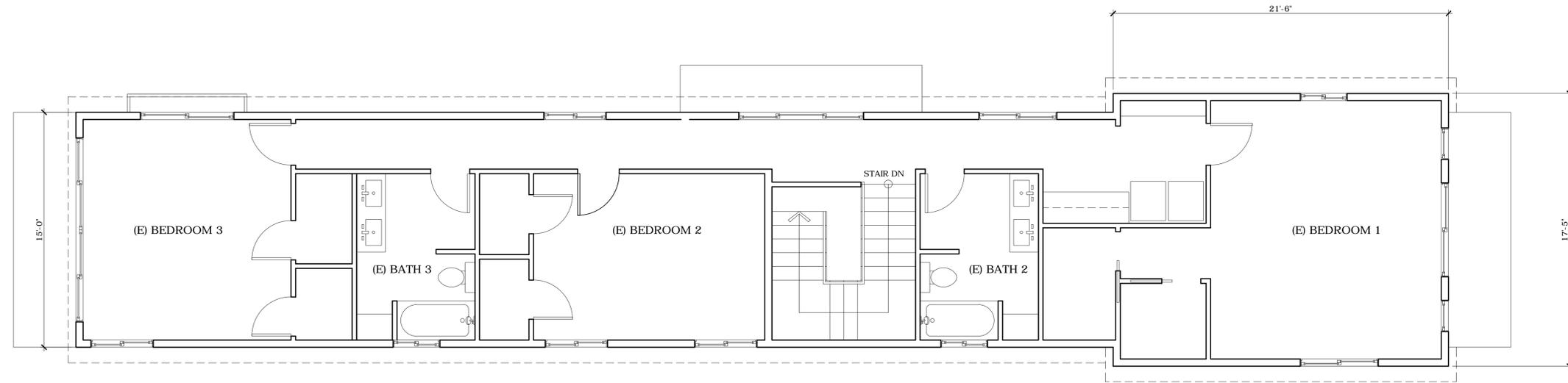
- TOILETS: NOT TO EXCEED 1.28 GALLONS PER FLUSH
- LAV FAUCETS: FLOW RATES NOT TO EXCEED 1.2 GPM @ 60 PSI
- COMBINED FLOWRATE OF ALL SHOWER HEADS SERVING A SINGLE SHOWER STALL SHALL NOT EXCEED 2.0 GPM @ 80 PSI
- MULTIPLE SHOWER HEADS IN SAME SHOWER COMBINED FLOW RATE OF 2.0 GPM @ 80 PSI OR DESIGNED SO THAT ONLY ONE SHOWER HEAD/ HAND HELD CAN BE USED AT A TIME
- KITCHEN FAUCET MAX FLOW RATE SHALL NOT EXCEED 1.8 GPM @ 60 PSI (MAY TEMPORARILY INCREASE THE FLOW TO ABOVE MAX. RATE BUT NOT EXCEED 2.2 GPM AT 60 PSI AND MUST DEFAULT TO A MAX FLOW F 1.8 GPM AT 60 PSI)

**NOTE: NEW WINDOWS TO HAVE A MAX U-FACTOR OF .32 AND MAX SHGC .25. NFRC THERMAL PERFORMANCE LABELS SHALL REMAIN ON WINDOWS UNTIL FINAL INSPECTION

TYPICAL NEW FULL HEIGHT, NON-BEARING PARTITION WALLS 2X4 WD STUDS @ MIN 16" O.C. W/ 1/2" TYPE 'X' GYP BD FINISH

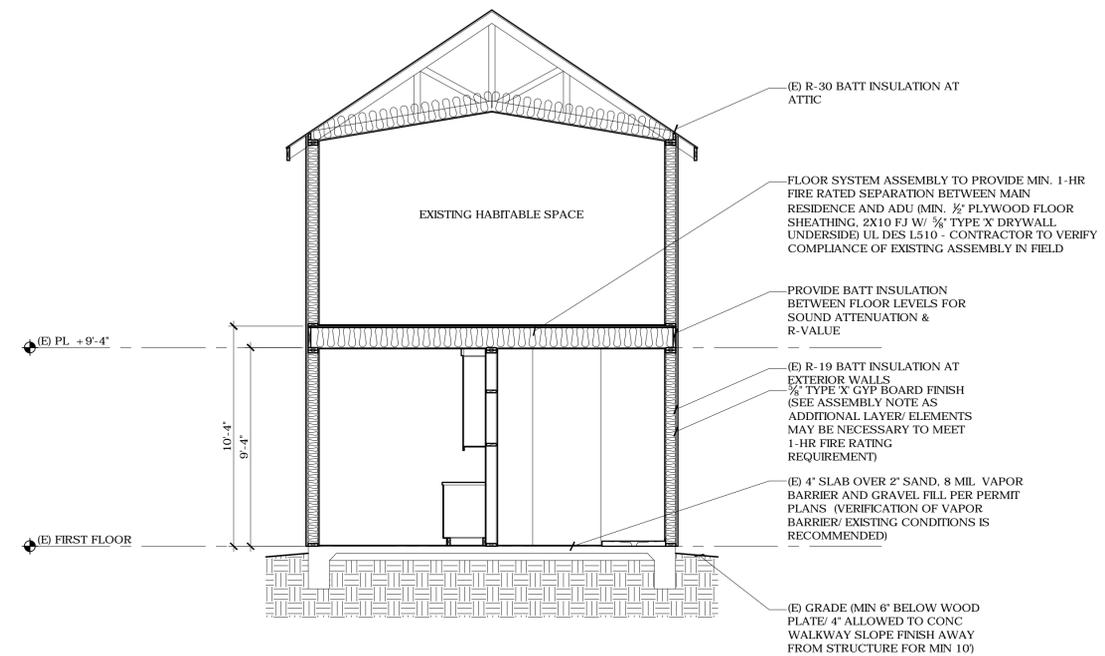
ALL HIGH EFFICACY RECESSED LED LIGHT FIXTURES - SEE LEGEND ABOVE

A2.0
DATE: BLDG 06.10.20



EXISTING SECOND FLOOR PLAN (FOR REFERENCE ONLY - NO WORK PROPOSED)

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



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

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A2.1

DATE: BLDG 06.10.20



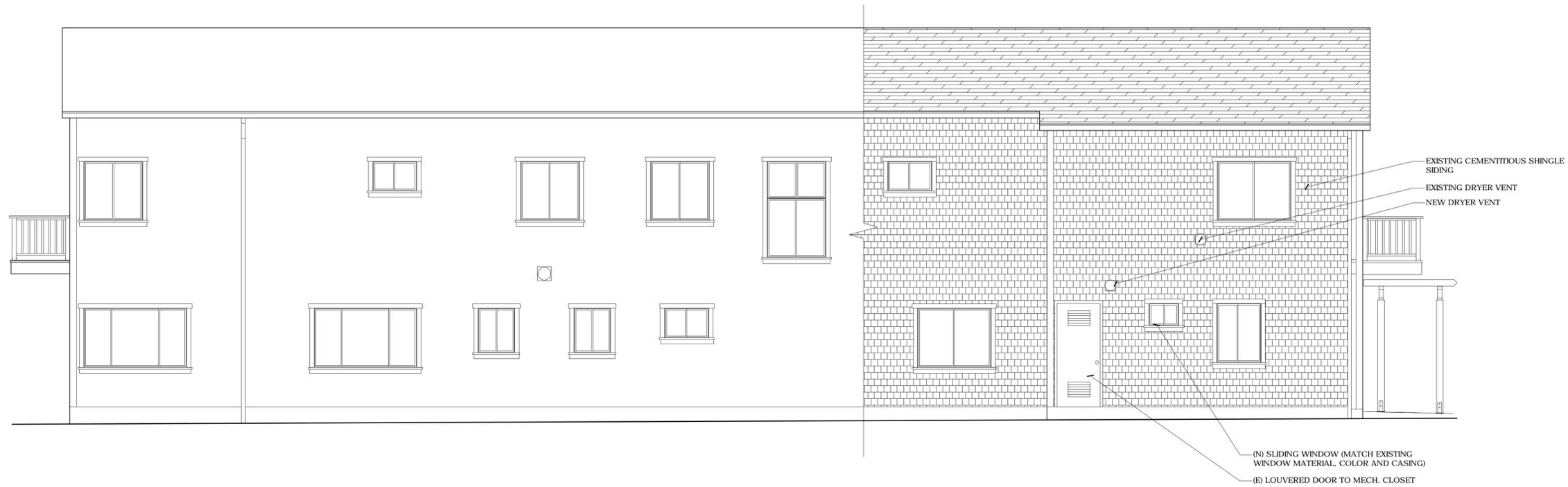
EAST ELEVATION
(NO WORK PROPOSED)



EXISTING NORTH ELEVATION



PROPOSED NORTH ELEVATION



PROPOSED WEST ELEVATION

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WILLIAMS ADU
GARAGE CONVERSION
6517 DEL PLAYA DRIVE
SANTA BARBARA, CA

A3.0

DATE: BLDG 06.10.20

RESIDENTIAL MEASURES SUMMARY RMS-1
Project Name: Williams ADU Garage Conversion
Building Type: Single Family
Date: 6/29/2020
Project Address: 6517 Del Playa Drive Santa Barbara
California Energy Climate Zone: CA Climate Zone 06
Total Cond. Floor Area: 370
Addition: 370
of Units: 1

2019 Low-Rise Residential Mandatory Measures Summary

Table of requirements for ventilation and indoor air quality, including sections 150.0(a)1 through 150.0(k)2F.

2019 Low-Rise Residential Mandatory Measures Summary

NOTE: Low-rise residential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach used.

Table of requirements for building envelope measures, fenestration, HVAC systems, water heating, and space conditioning, including sections 110.8(a) through 150.0(h)1.

2019 Low-Rise Residential Mandatory Measures Summary

Table of requirements for interior switches and controls, solar ready buildings, and lighting, including sections 150.0(k)2G through 150.0(l)2.

2019 Low-Rise Residential Mandatory Measures Summary

Table of requirements for ducts and fans, HVAC system heating and cooling loads, and HVAC system psychrometrics, including sections 150.0(i)3A through 150.0(m)13.

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

Summary of HVAC system heating and cooling loads, including tables for engineering checks, system load, and psychrometrics, along with diagrams of heating and cooling coils.

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WILLIAMS ADU GARAGE CONVERSION 6517 DEL PLAYA DRIVE SANTA BARBARA, CA

CERTIFICATE OF COMPLIANCE

Project Name: 6517 Del Playa Residence ADU
 Calculation Description: Title 24 Analysis

Calculation Date/Time: 2020-06-29T15:28:33-07:00
 Input File Name: T24SA-2001_6517.rbd19x

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GENERAL INFORMATION						
01	Project Name	6517 Del Playa Residence ADU				
02	Run Title	Title 24 Analysis				
03	Project Location	6517 Del Playa Drive				
04	City	Santa Barbara	05	Standards Version	2019	
06	Zip code	93109	07	Software Version	EnergyPro 8.1	
08	Climate Zone	6	09	Front Orientation (deg / Cardinal)	90	
10	Building Type	Single family	11	Number of Dwelling Units	1	
12	Project Scope	AdditionOnly	13	Number of Bedrooms	4	
14	Addition Cond. Floor Area (ft ²)	370	15	Number of Stories	1	
16	Existing Cond. Floor Area (ft ²)	2345	17	Fenestration Average U-factor	0.44	
18	Total Cond. Floor Area (ft ²)	2715	19	Glazing Percentage (%)	12.70%	
20	ADU Bedroom Count	1	21	ADU Conditioned Floor Area	370	
22	Is Natural Gas Available?	Yes				

Addition Alone Project Analysis Parameters						
01	02	03	04	05	06	
Existing Area (excl. new addition) (ft ²)	Addition Area (excl. existing) (ft ²)	Total Area (ft ²)	Existing Bedrooms	Addition Bedrooms	Total Bedrooms	
2345	370	2715	3	1	4	

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	Building does not incorporate Special Features

Registration Number: 220-P010116422A-000-000-0000000-0000
 CA Building Energy Efficiency Standards - 2019 Residential Compliance

Registration Date/Time: 2020-06-29 20:09:31
 Report Version: 2019.1.108
 Schema Version: rev 20200101

HERS Provider: CalCERTS Inc.
 Report Generated: 2020-06-29 15:30:19

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SLAB FLOORS						
01	02	03	04	05	06	07
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab-on-Grade	First Floor	370	63	None	80%	No

OPAQUE SURFACE CONSTRUCTIONS							
01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-19 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-19	None / None	0.074	Inside Finish: Gypsum Board Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6 Exterior Finish: 3 Coat Stucco
R-19 Floor No Crawlspace	Interior Floors	Wood Framed Floor	2x10 @ 16 in. O. C.	R-19	None / None	0.045	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 / 2x10 Ceiling Below Finish: Gypsum Board

BUILDING ENVELOPE - HERS VERIFICATION			
01	02	03	04
Quality Insulation Installation (QII)	Quality Installation 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
Name	System Type	Distribution Type	Water Heater Name (#)	Solar Heating System	Compact Distribution	HERS Verification
DHW Sys 1	Domestic Hot Water (DHW)	Standard Distribution System	DHW Heater 1 (1)	n/a	None	n/a

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ENERGY USE SUMMARY				
Energy Use (kTDOU/ft ² -yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating	4.19	9.17	-4.98	-118.9
Space Cooling	8.99	14.83	-5.84	-65
IAQ Ventilation	4.18	4.18	0	0
Water Heating	92.3	80.29	12.01	13
Self Utilization Credit	n/a	0	0	n/a
Compliance Energy Total	109.66	108.47	1.19	1.1

REQUIRED SPECIAL FEATURES
 The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.
 * NO SPECIAL FEATURES REQUIRED

HERS FEATURE SUMMARY
 The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Ns and CF3Ns are required to be completed in the HERS Registry

- Building-Level Verifications:
 * Indoor air quality ventilation
 * Kitchen range hood
 Cooling System Verifications:
 * -- None --
 Heating System Verifications:
 * -- None --
 HVAC Distribution System Verifications:
 * -- None --
 Domestic Hot Water System Verifications:
 * -- None --

ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft ²)	Avg. Ceiling Height	Water Heating System 1	Water Heating System 2
First Floor	Conditioned	Wall Furnace1	370	8	DHW Sys 1	N/A

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WATER HEATERS													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heating Element Type	Tank Type	# Units	Tank Vol. (gal)	Energy Factor or Efficiency	Input Rating or Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss or Recovery Eff.	1st Hr. Rating or Flow Rate	NEEA Heat Pump Brand or Model	Tank Location or Ambient Condition	Status	Verified Existing Condition
DHW Heater 1	Gas	Consumer Instantaneous	1	0	0.96-UEF	<= 200 kbtu/hr	0	n/a	n/a	n/a	n/a	New	n/a

WATER HEATING - HERS VERIFICATION							
01	02	03	04	05	06	07	08
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Central DHW Distribution	Shower Drain Water Heat Recovery
DHW Sys 1 - 1/1	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 Thermostat Type	Status	Verified Existing Condition	Heating Equipment Count	Cooling Equipment Count
Wall Furnace1	Heating and cooling system other	Heating Component 1	Cooling Component 1	HVAC Fan 1		Non-setback thermostat	New	NA	1	1

HVAC - HEATING UNIT TYPES			
01	02	03	04
Name	System Type	Number of Units	Heating Efficiency
Heating Component 1	Gas wall furnace	1	AFUE-72

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OPAQUE SURFACES									
01	02	03	04	05	06	07	08	09	10
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft ²)	TiR (deg)	Wall Exceptions	Status
S Wall	First Floor	R-19 Wall	90	Front	201	32	90	none	New
E Wall	First Floor	R-19 Wall	0	Right	163	20	90	none	New
N Wall	First Floor	R-19 Wall	270	Back	201	15	90	none	New
W Wall	First Floor	R-19 Wall	180	Left	28	0	90	none	New
Habitable Space Above	First Floor	R-19 Floor No Crawlspace	n/a	n/a	370	n/a	n/a		New

FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window	Window	S Wall	Front	90	1	12	1	12	0.55	Table 110.6-A	0.67	Table 110.6-B	Bug Screen
Window 2	Window	E Wall	Right	0				1	10	0.32	NFRC	0.25	NFRC
Window 3	Window	E Wall	Right	0				1	10	0.32	NFRC	0.25	NFRC
Window 4	Window	N Wall	Back	270				1	3	0.32	NFRC	0.25	NFRC
Window 5	Window	N Wall	Back	270				1	12	0.55	Table 110.6-A	0.67	Table 110.6-B

OPAQUE DOORS			
01	02	03	04
Name	Side of Building	Area (ft ²)	U-factor
Entry Door	S Wall	20	0.5

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HVAC - COOLING UNIT TYPES							
01	02	03	04	05	06	07	08
Name	System Type	Number of Units	Efficiency EER	Efficiency SEER	Zonally Controlled	Multi-speed Compressor	HERS Verification
Cooling Component 1	No Cooling	1			Not Zonal	Single Speed	n/a

HVAC - FAN SYSTEMS			
01	02	03	04
Name	Type	Fan Power (Watts/CFM)	Name
HVAC Fan 1	HVAC Fan	0.58	n/a

IAQ (INDOOR AIR QUALITY) FANS					
01	02	03	04	05	06
Dwelling Unit	IAQ CFM	IAQ Watts/CFM	IAQ Fan Type	IAQ Recovery Effectiveness (%)	IAQ Recovery Effectiveness - SRE
SFAM ADU IAQVentRpt	26	0.25	Default	0	n/a

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I, I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Scott Baer
 Documentation Author Signature: *Scott Baer*
 Company: MEC
 Address: 1616 Anacapa St.
 City/State/Zip: Santa Barbara, CA 93101
 Phone: 805-957-4632 206
 Signature Date: 2020-06-29 15:34:30
 CEAT/HERS Certification Identification (if applicable):

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
 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.
 3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Responsible Designer Name: Michelle McToldridge
 Responsible Designer Signature: *Michelle McToldridge*
 Company: Shelter Architecture
 Address: 540 Barker Pass
 City/State/Zip: Santa Barbara, CA 93108
 Phone: 805-895-3879
 Signature Date: 2020-06-29 20:09:31
 License: C29526

Digitally signed by CalCERTS. 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.



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