KITCHEN & BATH REMODEL / WINDOW REPLACEMENT

SCOPE OF PROJECT

REMODEL KITCHEN 360 SF
REMODEL MSTR BEDRROOM AND BATH 381 SF
REPLACE ALL WINDOWS
NO ADDITION SQ FT ADDED
NO LANDSCAPING NOR GRADING

PROJECT DATA

LOT AREA	6857 Sq Ft
RESIDENCE	2092 Sq Ft
GARAGE	285.5 Sq Ft

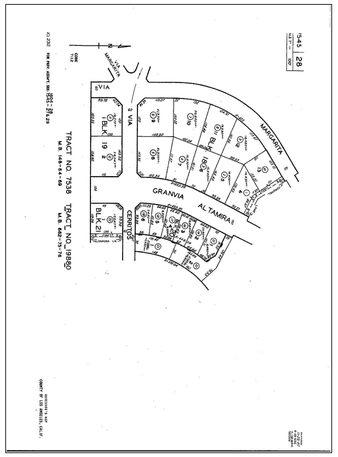
LOT COVERAGE

LOT AREA	6857 Sq Ft
RESIDENCE	2092 Sq Ft
GARAGE	285.5 Sq Ft
	2387.5 Sq Ft

2387.5 / 6857= 34% Lot Coverage

SHEET INDEX

VICINITY/PARCEL MAP

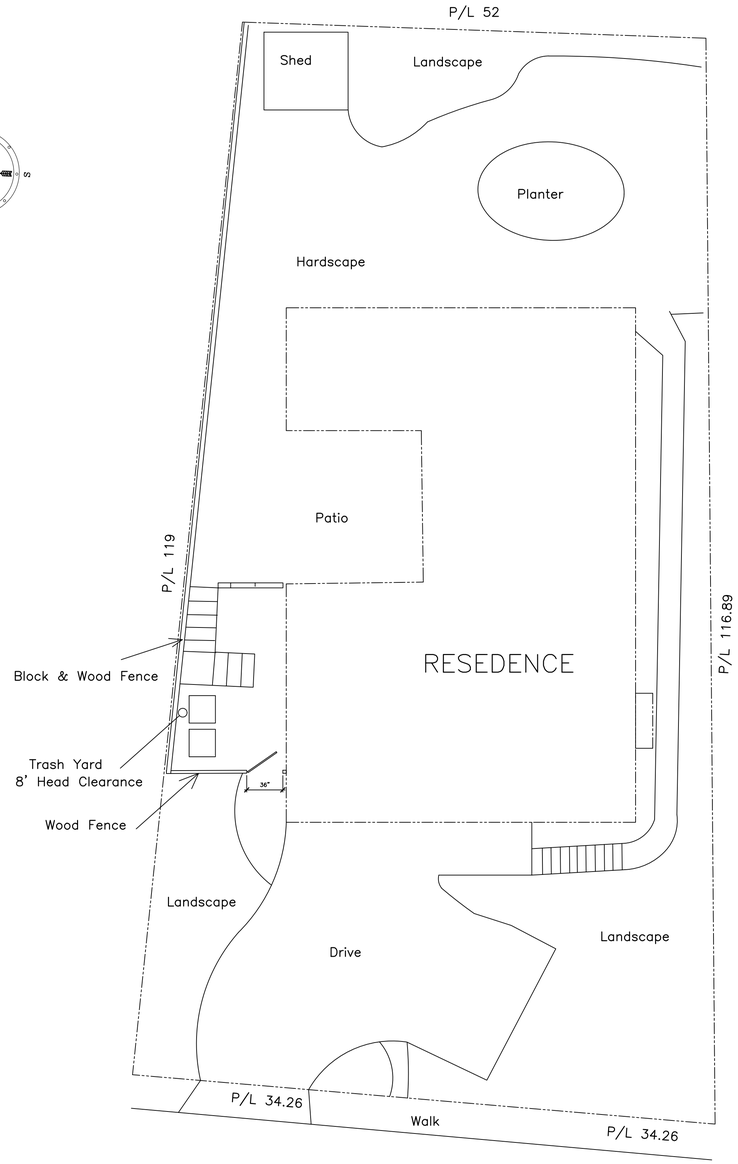


ALL NEW CONSTRUCTION SHALL CONFORM TO :

2016 CALIFORNIA BUILDING CODE CRC
2016 CALIFORNIA RESIDENTIAL CODE CRC
2016 CALIFORNIA MECHANICAL CODE CMC
2016 CALIFORNIA PLUMBING CODE CPC
2016 CALIFORNIA ELECTRICAL CODE CEC
CURRENT CALIFORNIA ENERGY CODE AND
LOS ANGELES FIRE CODE

ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH ANY WORK. DESIGNER SHALL BE NOTIFIED OF ANY ERRORS OR OMISSIONS FOR CORRECTION BEFORE PROCEEDING WITH BUILDING. IN NO CASE SHALL WORKING DIMENSION BE SCALED FROM PLANS, SECTIONS NOR DETAILS.

NO CUT NOR FILL SHALL BE PERFORMED.



GRANVIA ALTIMIRA

SITE PLAN

SCALE 1/8" = 1'

DRAFTSMAN
QUETZAL SILVER
PH 323-947-9029

REV 1
5-2-19

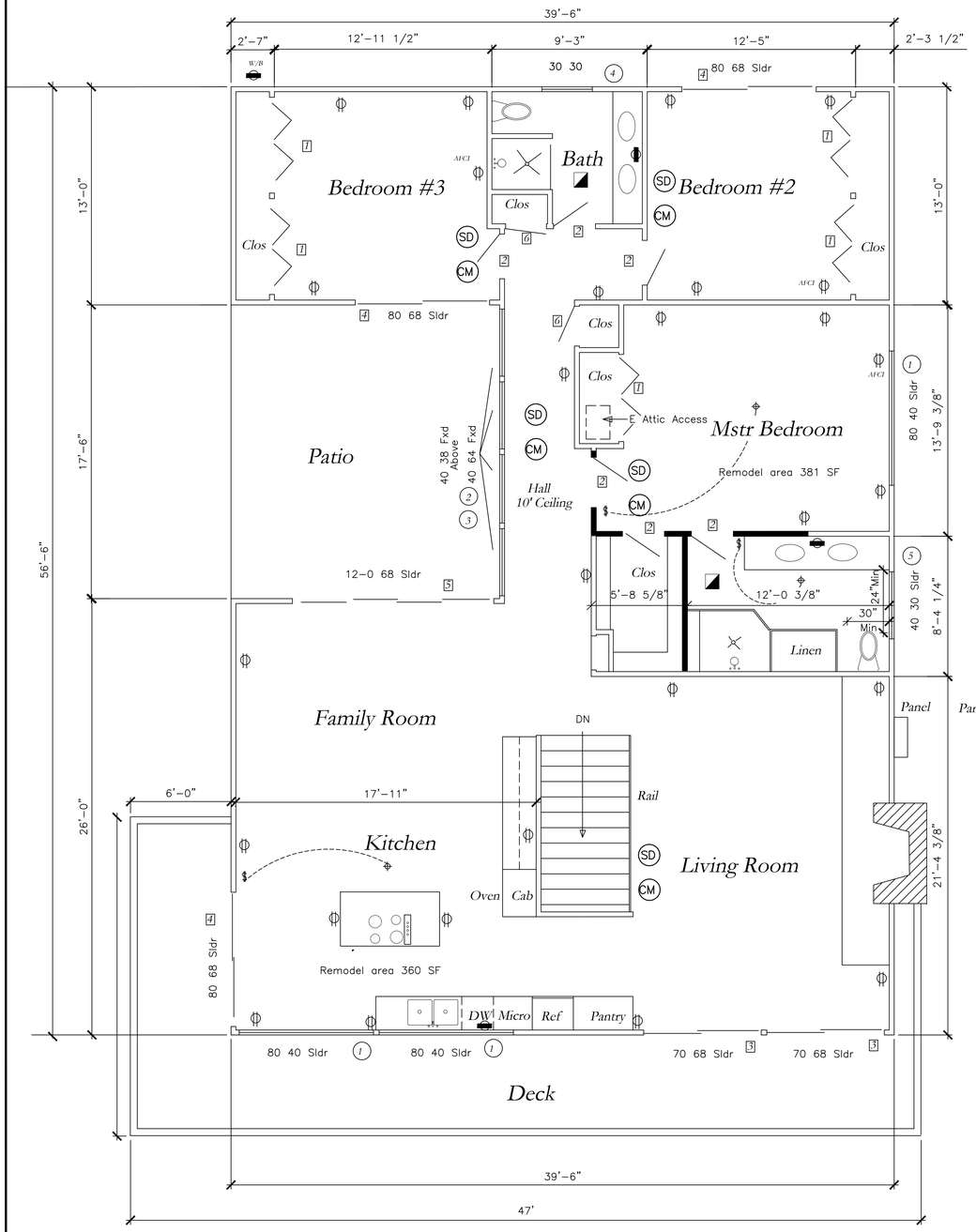
CONTRACTOR
SV CONSTRUCTION
STEVE VOLLKOMMER
PH 310-910-4877

LEGAL DESCRIPTION:
AIN:506-9031-1031
TRACT 4889 BLK 5
LOT 15

OWNER:
CAL-MAX PROPERTIES
1616 GRANVIA ALTAMIRA
PALO VERDES ESTATES
CA 90274

SITE PLAN

SHEET NO.
A–1



NEW UPPER LEVEL

1. All branch circuits that supply 125 Volt, single phase, 15 & 20 ampere branch circuits supplying outlets in family,living, dining, bed, sun and recreation room, dens, libraries, closets, hallways or similar areas shall be protected by arc-fault circuit interrupters, combination-typer per Article 210-12 of the CEC.

2. Ground fault protection is required for all grade access exterior outlets, outlets in bathrooms, kitchen, basements,crawl spaces, garages and within 6" of any water source per Article 210-8 of the CEC.

3.Use Tamper-Resistant Receptacles. (CEC 406.12(A))

DEMO

NEW

Door Schedule

Exteror Doors shall conform to standard SFM 12-7A-1

	Type/ Description	Location	Quantity
1	50 68 Bi Fold	Bedrooms Entry	6
2	28 68 Interior	Baths Bedrooms Entry	8
3	70 68 Slider	Living Room	2
4	80 68 Slider	Kitchen Bedroom #2,3	3
5	12 0 68 Slider	Family Room	1
6	26 68 Interior	Clos	2

Door Dimension Expressed in Feet and Inches
IE 30 68= 3'x6'8"

Exteror Doors shall conform to standard SFM 12-7A-1
All Windows and Doors Expressed in Feet and Inches.
I.E. 30 68 Door Means 3'0" x 6'8"

Electrical Legend

Symbol	Description
	HVAC Register
GFI W/B	GFI W/B Waterproof Box
AFCI	Receptacle, TAMPER PROOF Arc Fault Circut Interupter
	220 V Receptical/ Supply
	Switch
	Ceiling Light High Efficiency
	Recessed Ceiling Light High Effiency
	Outdoor Light
	Ceiling Fan w/ Light
	Effluent Fan 50 CFM

Window Schedule

U Factor= .30 Average
SHGC= .21 Average

	Type/ Description	Location	Quantity
1	80 40 Slider	Kitchen Mstr Bedroom	3
2	40 38 Picture	Hall	4
3	40 64 Picture	Hall	4
4	30 30 Slider	Bath	1
5	40 30 Slider	Bath	1
6	36 68 Picture	Entry	1
7			

"Milgard" brand aluminum frame Bronze color

Dual Glazed All Windows And Glass in Exterior Shall Be Tempered Due to High/Sever Fire Zone

50 CFM Fan

SD Hard Wired Smoke Dector

CM Hard Wired Carbon Monoxide Dector

Smoke detectors & CO detectors must be hard wired with battery backup.
CRC 314.6 Smoke alarms shall be interconected CRC 314.4

FLOOR PLANS

SCALE 1/4" = 1'

DRAFTSMAN
QUETZAL SILVER
PH 323-947-9029

REV 1
5-2-19

CONTRACTOR
SV CONSTRUCTION
STEVE VOLKOMMER
PH 310-910-4877

LEGAL DESCRIPTION:
AIN:506-9031-1031
TRACT 4889 BLK 5
LOT 15

OWNER:
CAL-MAX PROPERTIES
1616 GRANVIA ALTAMIRA
PALO VERDES ESTATES
CA 90274

FLOOR PLAN

SHEET NO.
A-3

Department of Development Services
Building and Safety Bureau

Erosion Control Best Management Practices

Information Bulletin
BU-039
Eff: 01-07-2013
Rev: 04-04-2017

Long Beach has two drainage systems – the sewers and the storm drains. The storm drain system was designed to prevent flooding by carrying excess rainwater away from city streets out to the ocean. Because the system contains no filters, it now serves the *unintended* function of carrying urban pollution straight to the ocean. This Information Bulletin will describe how to prevent ocean pollution from "stormwater" or "urban runoff."

Best management practices, such as handling, storing and disposing of materials properly prevents construction site pollutants from entering the storm drains.

GENERAL BUSINESS PRACTICES

ESCI SCHEDULING
Purpose: To reduce the discharge of pollutants from construction sites by sequencing the construction project to reduce the amount and duration of soil exposure.
- Schedule major grading operations during dry months.
- Practice erosion and sediment control year round.
- Schedule project to disturb only small portions of the site at any one time.
- Close and stabilize open trenches as soon as possible.

ESC21 DUST CONTROL
Purpose: To reduce the discharge of pollutants from construction sites by using dust control measures to stabilize soil from wind erosion, and reduce dust generated by construction activities.
- Stabilize exposed soils by using vegetation, watering/sprinkling, and stone gravel layering.
- Identify and stabilize primary access to site.
- Direct traffic to stabilized areas within the project.
- Street sweeping of adjacent public right-of-way.

ESC24 STABILIZED CONSTRUCTION ENTRANCE
Purpose: To reduce the discharge of pollutants from construction sites by reducing the amount of sediment, dust, and mud tracked off-site from construction traffic.
- Stabilize construction entrance with aggregate underlain with filter cloth.
- Construct on level ground where possible.
- Provide ample turning radius as part of entrance.
- Length should be 50-foot minimum, and width 30-foot minimum.

ESC5O SILT FENCE
Purpose: To reduce the discharge of pollutants from construction sites utilizing a silt fence that detains sediment-laden water, promoting sedimentation behind the fence.
- Use in areas where sheet flow occurs.
- Turn ends of fence uphill.
- Select filter fabric that retains 85% of soil.
- Silt fence, which is made of filter fabric, should be entrenched and attached to supporting poles.

ESC52 SAND BAG BARRIER
Purpose: To reduce the discharge of pollutants from construction sites by stacking sand bags along a level contour creating a barrier that detains sediment-laden water promoting sedimentation. Use along the perimeter of the site and around catch basin inlets to storm drains to create a temporary sediment trap.
- Use sand bags large enough to withstand flooding.
- Inspect sand bags after each rain.
- Remove sediment behind sand bags.
- Reshape or replace damaged sand bags.

ESC56 SEDIMENT BASIN
Purpose: To discharge the pollutants from construction sites by retaining runoff sufficiently to allow excessive sediment to settle.
- Should be located where failure of embankment would not cause life/property damage.
- Inspect weekly and after each rain.
- Remove sediments by using filters if necessary when basin is half-full.
- Line basin if ground water is within 10 feet of bottom.

Department of Development Services
Building and Safety Bureau

Construction Activity Best Management Practices

Information Bulletin
BU-038
Eff: 01-07-2013
Rev: 04-04-2017

Long Beach has two drainage systems – the sewers and the storm drains. The storm drain system was designed to prevent flooding by carrying excess rainwater away from city streets out to the ocean. Because the system contains no filters, it now serves the *unintended* function of carrying urban pollution straight to the ocean. This Information Bulletin will describe how to prevent ocean pollution from "stormwater" or "urban runoff" for residential projects.

Best management practices, such as handling, storing and disposing of materials properly prevents construction site pollutants from entering the storm drains.

GENERAL BUSINESS PRACTICES

CD4(2) WATER CONSERVATION PRACTICE
Purpose: To reduce the discharge of pollutants from construction sites by using construction water that does not cause erosion or wash materials off-site.
Standards:
- Discourage washing of equipment on site.
- Avoid using water to clean construction areas. Sweep paved areas where practical.
- Direct construction water run-off to areas where it can soak into the ground.
- Apply water for dust control moderately so run-off does not occur.

CA1O MATERIAL DELIVERY AND STORAGE
Purpose: To reduce the discharge of pollutants during the delivery and storage process by minimizing the contact of materials with run-off.
Standards:
- Designate storage areas at the project site.
- Prevent spills or leakage of liquid materials from contaminating soil or soaking into the ground by placing storage areas on impervious surfaces. Do not store hazardous chemicals, drums, or bagged materials directly on the ground.
- Provide curbs or dikes around the perimeter of material storage areas.
- Store materials indoors when available.
- Minimize hazardous material storage on-site.
- Keep hazardous materials in their original containers and keep them well labeled.
- Keep ample supply of appropriate spill clean-up material near storage areas.
- Contain and clean up any spill immediately.

CA11 MATERIAL USE
Purpose: To reduce the discharge of pollutants by properly storing and utilizing materials.
Standards:
- Use materials only where and when needed to complete the construction activity.
- Follow manufacturers instructions regarding the preparation, use, and disposal of materials.
- Avoid exposing applied materials to rainfall and run-off unless sufficient time has allowed for them to dry.

CA12 SPILL PREVENTION AND CONTROL
Purpose: To reduce the discharge of pollutants from spills by preventing, containing and clean-up spills.
Standards:
- Hold regular meetings to discuss and reinforce appropriate disposal procedures.
- Use absorbent materials on small spills rather then hosing down or burying the spill.
- For significant or hazardous spills that cannot be controlled by personnel in the immediate vicinity, notify local emergency response by calling 911.

CA2O SOLID WASTE MANAGEMENT
Purpose: To reduce the discharge of pollutants as a result of the creation, stockpiling and removal of litter and other construction waste.
Standards:
- Collect site trash regularly, daily during rainy and windy conditions.
- Keep solid materials shielded by using either a covered dumpster or other enclosed trash container that limits contact with rain, run-off, and/or scattering due to winds.
- Make sure that toxic wastes and chemicals are not disposed of in dumpsters designed for construction debris.

CA21 HAZARDOUS WASTE MANAGEMENT
Purpose: To reduce the discharge of pollutants by the proper storage and disposal of waste.
Standards:
- Sites with existing structures may contain waste which must be disposed of in accordance with federal, state, and local regulations which include sandblasting grit mixed with lead, cadmium, or chromium based paints and asbestos.
- Major contamination, large spills, and other serious hazardous waste incidents require immediate response from specialists.
- Keep liquid or semi-liquid hazardous waste in appropriate containers and under cover.
- Clearly mark on all hazardous waste containers which materials are acceptable for the container.
- Place hazardous waste containers in secondary containment.
- Make sure that toxic wastes and chemicals are not disposed of in dumpsters designed for construction debris.

City of
Information Bulletin BU-038 • Construction Activities / Best Management Practices

CA11 MATERIAL USE
Purpose: To reduce the discharge of pollutants by properly storing and utilizing materials.
Standards:
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- Follow manufacturers instructions regarding the preparation, use, and disposal of materials.
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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01
Project Name: Single Fam. Attached(Exist + Addition/Alteration)) **Page 1 of 8**
Calculation Description: Title 24 Analysis **Calculation Date/Time:** 20:38, Sun, Apr 21, 2019
Input File Name: Alt. @19112 Tajuate Ave. Carson 90746.ribd16x

GENERAL INFORMATION					
01	Project Name	Single Fam. Attached(Exist + Addition/Alteration))			
02	Calculation Description	Title 24 Analysis			
03	Project Location	19116 Granvia Altamira			
04	City	Palos Verdes Estates	05	Standards Version	Compliance 2017
06	Zip Code	90274	07	Compliance Manager Version	BEMCmpMgr 2016.3.1 (1149)
08	Climate Zone	CZ6	09	Software Version	EnergyPro 7.2
10	Building Type	Single Family	11	Front Orientation (deg/Cardinal)	285
12	Project Scope	Addition and/or Alteration	13	Number of Dwelling Units	1
14	Total Cond. Floor Area (ft²)	1984.5	15	Number of Zones	2
16	Slab Area (ft²)	34.5	17	Number of Stories	2
18	Addition Cond. Floor Area (ft²)	0	19	Natural Gas Available	Yes
20	Addition Slab Area (ft²)	0	21	Glazing Percentage (%)	32.2%

COMPLIANCE RESULTS	
01	Building Complies with Computer Performance
02	This building DOES NOT require HERS Verification
03	This building incorporates one or more Special Features shown below

ENERGY USE SUMMARY

04	05	06	07	08
Energy Use (kTDV/ft²-yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating	34.49	31.82	2.67	7.7%
Space Cooling	12.57	12.33	0.24	1.9%
IAQ Ventilation	0.00	0.00	0.00	0.0%
Water Heating	15.81	15.81	0.00	0.0%
Photovoltaic Offset	----	0.00	0.00	----
Compliance Energy Total	62.87	59.96	2.91	4.6%

REQUIRED SPECIAL FEATURES
The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.
- **Ducts in crawl space**

Registration Number: CA Building Energy Efficiency Standards - 2016 Residential Compliance
Registration Date/Time: Report Version - CF1R-05222018-1149
HERS Provider: Report Generated at: 2019-04-21 20:40:36

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01
Project Name: Single Fam. Attached(Exist + Addition/Alteration)) **Page 2 of 8**
Calculation Description: Title 24 Analysis **Calculation Date/Time:** 20:38, Sun, Apr 21, 2019
Input File Name: Alt. @19112 Tajuate Ave. Carson 90746.ribd16x

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 components tables below.
Building-level Verifications:
- --None--

HVAC System Verifications:
- -- None --

HVAC Distribution System Verifications:
- -- None --

Domestic Hot Water System Verifications:
- -- None --

BUILDING - FEATURES INFORMATION

01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Single Fam. Attached(Exist + Addition/Alteration))	1984.5	1	3	2	0	1

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 Flr Zone Altered	Conditioned	HVAC System1	34.5	10	DHW Sys 1	n/a
Second Flr Zone Altered	Conditioned	HVAC System1	1950	8.1	DHW Sys 1	n/a

Registration Number: CA Building Energy Efficiency Standards - 2016 Residential Compliance
Registration Date/Time: Report Version - CF1R-05222018-1149
HERS Provider: Report Generated at: 2019-04-21 20:40:36

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01
Project Name: Single Fam. Attached(Exist + Addition/Alteration)) **Page 3 of 8**
Calculation Description: Title 24 Analysis **Calculation Date/Time:** 20:38, Sun, Apr 21, 2019
Input File Name: Alt. @19112 Tajuate Ave. Carson 90746.ribd16x

OPAQUE SURFACES

01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft²)	Window & Door Area (ft²)	Tilt (deg)	Wall Exception	Status	Verified Existing Condition
South Wall Existing	First Flr Zone Altered	Default Wall Prior to 1971	195	Right	205	0	90	n/a	Existing	No
East Wall Existing	First Flr Zone Altered	Default Wall Prior to 1971	105	Back	67.1	0	90	n/a	Existing	No
West Wall Existing	First Flr Zone Altered	Default Wall Prior to 1971	285	Front	132.9	63.3	90	n/a	Existing	No
North Int Sur/Garage	First Flr Zone Altered>>__Garage__	Default Wall Prior to 197			55	17.8		n/a	Existing	No
First Flr Sur/Garage	First Flr Zone Altered>>__Garage__	Default Wall Prior to 197			65.8	0		n/a	Existing	No
North Wall Existing	Second Flr Zone Altered	Default Wall Prior to 1971	15	Left	457.7	224.1	90	n/a	Existing	No
South Wall Existing 2	Second Flr Zone Altered	Default Wall Prior to 1971	195	Right	457.7	44	90	n/a	Existing	No
East Wall Existing 2	Second Flr Zone Altered	Default Wall Prior to 1971	105	Back	449.6	162.3	90	n/a	Existing	No
West Wall Existing 2	Second Flr Zone Altered	Default Wall Prior to 1971	285	Front	449.6	204.9	90	n/a	Existing	No
Floor/Underfloor	Second Flr Zone Altered	Default Floor Crawlspace			1950			n/a	Existing	No
Floor Int Sur/First Flr A	Second Flr Zone Altered>>First Flr Zone Altered	R-9 Floor No Crawlspace			34.5			n/a	Existing	No
Floor Int Sur/Garage Exis	Second Flr Zone Altered>>__Garage__	Default Floor No Crawlspace			285.5			n/a	Existing	No
North Wall Existing	Garage__	R-0 Wall	15	Left	260	0	90	n/a	Existing	No
South Wall Existing 3	Garage__	R-0 Wall	195	Right	205	0	90	n/a	Existing	No
East Wall Existing 3	Garage__	R-0 Wall	105	Back	242.5	0	90	n/a	Existing	No
West Wall Existing 3	Garage__	R-0 Wall	285	Front	178.7	0	90	n/a	Existing	No

ATTIC

01	02	03	04	05	06	07	08	09	10
Name	Construction	Type	Roof Rise	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof	Status	Verified Existing Condition
Attic Second Flr Zone Altered	Attic RoofSecond Flr Zone Altered	Ventilated	2.5	0.1	0.85	No	No	Existing	No

Registration Number: CA Building Energy Efficiency Standards - 2016 Residential Compliance
Registration Date/Time: Report Version - CF1R-05222018-1149
HERS Provider: Report Generated at: 2019-04-21 20:40:36

LEGAL DESCRIPTION:
AIN:506-9031-1031
TRACT 4889 BLK 5
LOT 15

DRAFTSMAN
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CONTRACTOR
SV CONSTRUCTION
STEVE VOLLKOMMER
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REV'I
5-2-19

OWNER:
CAL-MAX PROPERTIES
1616 GRANVIA ALTAMIRA
PALO VERDES ESTATES
CA 90274

SHEET NO.
T-1 | BMP/ T-24

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	08
Name	System Type	Distribution Type	Water Heater	Number of Heaters	Solar Fraction (%)	Status	Verified Existing Condition
DHW Sys 1	DHW	Standard	DHW Heater 1	1	0	Existing	No

WATER HEATERS

01	02	03	04	05	06	07	08	09	10	11	12
Name	Heater Element Type	Tank Type	Number of Units	Tank Volume (gal)	Uniform Energy Factor / Energy Factor / Efficiency	Input Rating / Pilot / Thermal Efficiency	Tank Insulation R-value (Int/Ext)	Standby Loss / Recovery Eff	First Hour Rating / Flow Rate	NEEA Heat Pump Brand / Model	Tank Location or Ambient Condition
DHW Heater 1	Gas	Small Storage	1	50	0.525 EF	<= 75 kBtu/hr	0	n/a	n/a	n/a	n/a

SPACE CONDITIONING SYSTEMS

01	02	03	04	05	06	07	08
SC Sys Name	System Type	Heating Unit Name	Cooling Unit Name	Fan Name	Distribution Name	Status	Verified Existing Condition
HVAC System1	Other Heating and Cooling System	Heating Component 1	Cooling Component 1	HVAC Fan 1	Air Distribution System 1	Existing	No

HVAC - DISTRIBUTION SYSTEMS

01	02	03	04	05	06	07	08	09	10
Name	Type	Duct Leakage	Insulation R-value	Supply Duct Location	Return Duct Location	Bypass Duct	Status	Verified Existing Condition	HERS Verification
Air Distribution System 1	Ducts located in a crawl space	Existing (not specified)	6.0	Crawl Space	Crawl Space	None	Existing	No	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(%)	HERS Verification
SFam IAQVentRpt	0	0.25	Default	0	Not 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 components tables below.

Building-level Verifications:
- --None--

Cooling System Verifications:
- -- None --

HVAC Distribution System Verifications:
- -- None --

Domestic Hot Water System Verifications:
- -- None --

BUILDING - FEATURES INFORMATION

01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Single Fam. Attached(Exist + Addition/Alteration))	1984.5	1	3	2	0	1

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
Firstl Flr Zone Altered	Conditioned	HVAC System1	34.5	10	DHW Sys 1	n/a
Second Flr Zone Altered	Conditioned	HVAC System1	1950	8.1	DHW Sys 1	n/a

OPAQUE SURFACES

01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft²)	Window & Door Area (ft²)	Tilt (deg)	Wall Exception	Status	Verified Existing Condition
South Wall Existing	Firstl Flr Zone Altered	Default Wall Prior to 1971	195	Right	55	0	90	n/a	Existing	No
East Wall Existing	Firstl Flr Zone Altered	Default Wall Prior to 1971	105	Back	67.1	0	90	n/a	Existing	No
West Wall Existing	Firstl Flr Zone Altered	Default Wall Prior to 1971	285	Front	132.9	63.3	90	n/a	Existing	No
North Int Sur/Garage	Firstl Flr Zone Altered>>__Garage__	Default Wall Prior to 197			55	17.8		n/a	Existing	No
East Int Sur/Garage	Firstl Flr Zone Altered>>__Garage__	Default Wall Prior to 197			65.8	0		n/a	Existing	No
North Wall Existing	Second Flr Zone Altered	Default Wall Prior to 1971	15	Left	457.7	224.1	90	n/a	Existing	No
South Wall Existing 2	Second Flr Zone Altered	Default Wall Prior to 1971	195	Right	457.7	44	90	n/a	Existing	No
East Wall Existing 2	Second Flr Zone Altered	Default Wall Prior to 1971	105	Back	449.6	142.3	90	n/a	Existing	No
West Wall Existing 2	Second Flr Zone Altered	Default Wall Prior to 1971	285	Front	449.6	204.9	90	n/a	Existing	No
Roof Attic Existing	Second Flr Zone Altered	Default Roof Prior to 197			706			n/a	Existing	No
Floor/Underfloor	Second Flr Zone Altered	Default Floor Crawlspace			1630			n/a	Existing	No
Floor Int Sur/First Flr A	Second Flr Zone Altered>>Firstl Flr Zone Altered	R-0 Floor No Crawlspace			34.5			n/a	Existing	No
Floor Int Sur/Garage Exis	Second Flr Zone Altered>>__Garage__	Default Floor No Crwlspce			285.5			n/a	Existing	No
North Wall Existing	__Garage__	R-0 Wall	15	Left	260	0	90	n/a	Existing	No
South Wall Existing 3	__Garage__	R-0 Wall	195	Right	205	0	90	n/a	Existing	No
East Wall Existing 3	__Garage__	R-0 Wall	105	Back	242.5	0	90	n/a	Existing	No
West Wall Existing 3	__Garage__	R-0 Wall	285	Front	176.7	0	90	n/a	Existing	No

ATTIC

01	02	03	04	05	06	07	08	09	10
Name	Construction	Type	Roof Rise	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof	Status	Verified Existing Condition
Attic Second Flr Zone Altered	Attic RoofSecond Flr Zone Altered	Ventilated	2.5	0.1	0.85	No	No	Existing	No

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Gilbert Arevalo	Documentation Author Signature:
Company: Beach Cities Contracting Services	Signature Date: 4/21/2019
Address: 2915 N. Main St. # 16	CEA/HERS Certification Identification (If applicable):
City/State/Zip: Los Angeles, California 90031	Phone: 310-408-3773

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.

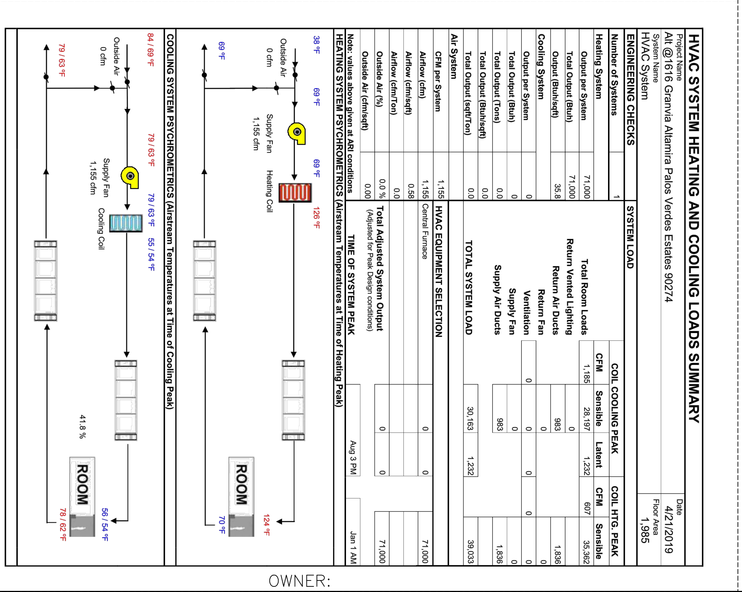
Responsible Designer Name: Quetzal Silver	Responsible Designer Signature:
Company: Quicksilver Drafting	Date Signed:
Address: 1840 S. Gaffey St. #394	License:
City/State/Zip: San Pedro , CA 90731	Phone: 310-947-9029

FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10	11
Name	Surface (Orientation-Azimuth)	Width (ft)	Height (ft)	Multiplier	Area (ft²)	U-factor	SHGC	Exterior Shading	Status	Verified Existing Condition
Window	West Wall Existing (Front-285)	----	----	1	23.3	0.47	0.25	Insect Screen (default)	New	n/a
Window 2	North Wall Existing (Left-15)	----	----	1	26.7	0.35	0.25	Insect Screen (default)	New	n/a
Window 3	North Wall Existing (Left-15)	----	----	1	26.7	0.35	0.25	Insect Screen (default)	New	n/a
Window 4	North Wall Existing (Left-15)	----	----	1	26.7	0.35	0.25	Insect Screen (default)	New	n/a
Window 5	North Wall Existing (Left-15)	----	----	1	26.7	0.35	0.25	Insect Screen (default)	New	n/a
Window 6	North Wall Existing (Left-15)	----	----	1	16.0	0.35	0.25	Insect Screen (default)	New	n/a
Window 7	North Wall Existing (Left-15)	----	----	1	16.0	0.35	0.25	Insect Screen (default)	New	n/a
Window 8	North Wall Existing (Left-15)	----	----	1	16.0	0.35	0.25	Insect Screen (default)	New	n/a
Window 9	North Wall Existing (Left-15)	----	----	1	16.0	0.35	0.25	Insect Screen (default)	New	n/a
Door	North Wall Existing (Left-15)	----	----	1	53.3	0.47	0.25	Insect Screen (default)	New	n/a
Window 10	South Wall Existing 2 (Right-195)	----	----	1	32.0	0.47	0.25	Insect Screen (default)	New	n/a
Window 11	South Wall Existing 2 (Right-195)	----	----	1	12.0	0.47	0.25	Insect Screen (default)	New	n/a
Window 12	East Wall Existing 2 (Back-105)	----	----	1	9.0	0.47	0.25	Insect Screen (default)	New	n/a
Door 2	East Wall Existing 2 (Back-105)	----	----	1	53.3	0.47	0.25	Insect Screen (default)	New	n/a
Door 3	East Wall Existing 2 (Back-105)	----	----	1	80.0	0.47	0.25	Insect Screen (default)	New	n/a
Window 13	West Wall Existing 2 (Front-285)	----	----	1	28.0	0.47	0.25	Insect Screen (default)	New	n/a
Window 14	West Wall Existing 2 (Front-285)	----	----	1	28.0	0.47	0.25	Insect Screen (default)	New	n/a
Window 15	West Wall Existing 2 (Front-285)	----	----	1	47.8	0.47	0.25	Insect Screen (default)	New	n/a
Window 16	West Wall Existing 2 (Front-285)	----	----	1	47.8	0.47	0.25	Insect Screen (default)	New	n/a
Window 17	West Wall Existing 2 (Front-285)	----	----	1	53.3	0.47	0.25	Insect Screen (default)	New	n/a

OPAQUE DOORS

01	02	03	04	05	06
Name	Side of Building	Area (ft²)	U-factor	Status	Verified Existing Condition
Door 4	West Wall Existing	40.0	0.60	Existing	No
Door 5	North Int Sur/Garage	17.8	0.60	Existing	No



OPAQUE SURFACE CONSTRUCTIONS

01	02	03	04	05	06	07
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Winter Design U-factor	Assembly Layers
R-0 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	none	0.361	• Inside Finish: Gypsum Board • Cavity / Frame: no insul. / 2x4 • Exterior Finish: 3 Coat Stucco
Default Wall Prior to 197	Interior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	none	0.277	• Inside Finish: Gypsum Board • Cavity / Frame: no insul. / 2x4 • Other Side Finish: Gypsum Board
Default Wall Prior to 1971	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	none	0.361	• Inside Finish: Gypsum Board • Cavity / Frame: no insul. / 2x4 • Exterior Finish: 3 Coat Stucco
Attic RoofSecond Flr Zone Altered	Attic Roofs	Wood Framed Ceiling	2x4 Top Chord of Roof Truss @ 24 in. O.C.	none	0.644	• Cavity / Frame: no insul. / 2x4 Top Chrd • Roof Deck: Wood Siding/sheathing/decking • Roofing: Light Roof (Asphalt Shingle)
R-0 Floor No Crawlspace	Interior Floors	Wood Framed Floor	2x12 @ 16 in. O.C.	none	0.196	• Floor Surface: Carpeted • Floor Deck: Wood Siding/sheathing/decking • Cavity / Frame: no insul. / 2x12 • Ceiling Below Finish: Gypsum Board
Default Floor No Crwlspce	Interior Floors	Wood Framed Floor	2x12 @ 16 in. O.C.	none	0.196	• Floor Surface: Carpeted • Floor Deck: Wood Siding/sheathing/decking • Cavity / Frame: no insul. / 2x12 • Ceiling Below Finish: Gypsum Board
Default Floor Crawlspace	Floors Over Crawlspace	Wood Framed Floor	2x12 @ 16 in. O.C.	none	0.216	• Floor Surface: Carpeted • Floor Deck: Wood Siding/sheathing/decking • Cavity / Frame: no insul. / 2x12
Default Roof Prior to 197	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 16 in. O.C.	R 11	0.083	• Inside Finish: Gypsum Board • Cavity / Frame: R-9.1 / 2x4 • Over Ceiling Joists: R-1.9 insul.

SLAB FLOORS

01	02	03	04	05	06	07	08	09
Name	Zone	Area (ft²)	Perimeter (ft)	Edge Insul. R-value	Carpeted Fraction	Heated	Status	Verified Existing Condition
Slab-on-Grade	Firstl Flr Zone Altered	34.5	25.5	None	1	No	Existing	No

OWNER:
CAL-MAX PROPERTIES
1616 GRANVIA ALTAMIRA
PALO VERDES ESTATES
CA 90274

LEGAL DESCRIPTION:
AIN:506-9031-1031
TRACT 4889 BLK 5
LOT 15

SHEET NO. T-12
T-24

CONTRACTOR
SV CONSTRUCTION
STEVE VOLLKOMMER
PH 310-910-4877

DRAFTSMAN
QUETZAL SILVER
PH 323-947-9029
REV 1
5-2-19